26” LCD TV

chassis FL11.3

SERVICE MANUAL

Contents

TYPE A

LC260EM2	EMERSON	(Serial No.: DS1)
LC260SS2	SYLVANIA	(Serial No.: DS1)
26MF301B/F7	MAGNAVOX	(Serial No.: DS1)
26MF301B/F7	MAGNAVOX	(Serial No.: DS2)

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IMPORTANT SAFETY NOTICE

Proper service and repair is important to the safe, reliable operation of all Funai Equipment. The service procedures recommended by Funai and described in this service manual are effective methods of performing service operations. Some of these service special tools should be used when and as recommended.

It is important to note that this service manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It also is important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. Funai could not possibly know, evaluate and advice the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, Funai has not undertaken any such broad evaluation. Accordingly, a servicer who uses a service procedure or tool which is not recommended by Funai must first use all precautions thoroughly so that neither his safety nor the safe operation of the equipment will be jeopardized by the service method selected.

The LCD panel is manufactured to provide many years of useful life. Occasionally a few non active pixels may appear as a tiny spec of color. This is not to be considered a defect in the LCD screen.

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SPECIFICATIONS

< TUNER / NTSC >

ANT. Input ---------- 75 Ω Unbal., F type

Description	Condition	Unit	Nominal	Limit
1. AFT Pull-In Range	---	MHz	±2.3	±2.1
2. Synchronizing Sens.	TV.ch.4 CA.ch.31 CA.ch.87	dBμ dBμ dBμ	18 18 18	20 20 23

< TUNER / ATSC >

Description	Condition	Unit	Nominal	Limit
1. Received Freq. Range (-28dBm)	---	kHz	---	±100
2. ATSC Dynamic Range (min / max)	ch.4 ch.10 ch.41	dBm dBm dBm	--- --- ---	-76/0 -76/0 -76/+4

< LCD PANEL >

Description	Condition	Unit	Nominal	Limit
1. Native Pixel Resolution	Horizontal Vertical	pixels pixels	1366 768	--- ---
2. Brightness (w / filter)	---	cd/m^2	360	---
3. Viewing Angle	Horizontal Vertical	° °	-85 to 85 -80 to 80	--- ---

< VIDEO >

Description	Condition	Unit	Nominal	Limit
1. Over Scan	Horizontal Vertical	% %	5 5	5±5 5±5
2. Color Temperature	--- x y	°K	12000 0.272 0.278	--- ±3% ±3%
3. Resolution (composite video)	Horizontal Vertical	line line	400 350	--- ---

< AUDIO >

All items are measured across 8 Ω load at speaker output terminal with L.P.F.

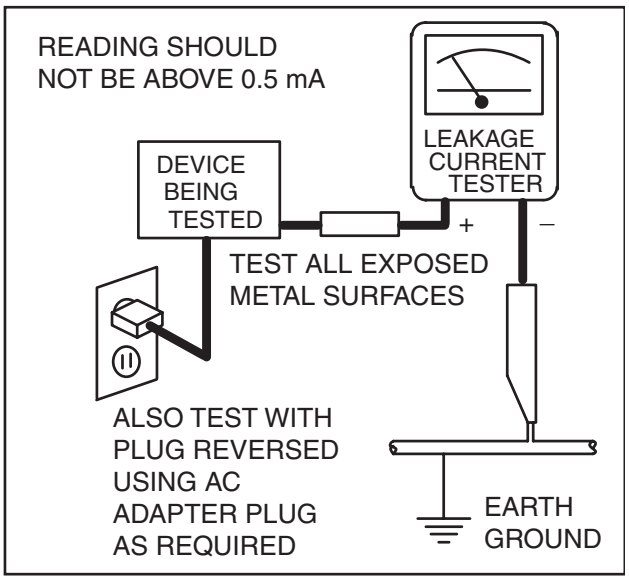
Description	Condition	Unit	Nominal	Limit
1. Audio Output Vol. MAX (ATSC 0 dBfs)	Lch/Rch	W	10.0/10.0	9.0/9.0
2. Audio Distortion (NTSC)	500mW: Lch/Rch	%	0.5/0.5	2.0/2.0
3. Audio Freq. Response (NTSC)	–6dB: Lch –6dB: Rch	Hz Hz	70 to 10 k 70 to 10 k	--- ---

IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, our products are strictly inspected for recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Safety Precautions for LCD TV Circuit

1. **Before returning an instrument to the customer,** always make a safety check of the entire instrument, including, but not limited to, the following items:
   - **a.** Be sure that no built-in protective devices are defective and have been defeated during servicing. (1) Protective shields are provided on this chassis to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. **Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage.**
   - **b.** Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, (1) spacing between the Liquid Crystal Panel and the cabinet mask, (2) excessively wide cabinet ventilation slots, and (3) an improperly fitted and/or incorrectly secured cabinet back cover.
   - **c. Antenna Cold Check -** With the instrument AC plug removed from any AC source, connect an electrical jumper across the two AC plug prongs. Place the instrument AC switch in the on position. Connect one lead of an ohmmeter to the AC plug prongs tied together and touch the other ohmmeter lead in turn to each tuner antenna input exposed terminal screw and, if applicable, to the coaxial connector. If the measured resistance is less than 1.0 megohm or greater than 5.2 megohm, an abnormality exists that must be corrected before the instrument is returned to the customer. Repeat this test with the instrument AC switch in the off position.
   - **d. Leakage Current Hot Check -** With the instrument completely reassembled, plug the AC line cord directly into a 120 V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.1 Leakage Current for Appliances and Underwriters Laboratories (UL) 1410, (50.7). With the instrument AC switch first in the on position and then in the off position, measure from a known earth ground (metal water pipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle brackets, metal cabinet, screw heads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milli-ampere. Reverse the instrument power cord plug in the outlet and repeat the test.



ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER OR BEFORE CONNECTING THE ANTENNA OR ACCESSORIES.

2. Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the Liquid Crystal Panel.

3. **Design Alteration Warning -** Do not alter or add to the mechanical or electrical design of this TV receiver. Design alterations and additions, including, but not limited to circuit modifications and the addition of items such as auxiliary audio and/or video output connections, might alter the safety characteristics of this receiver and create a hazard to the user. Any design alterations or additions will void the manufacturer's warranty and may make you, the servicer, responsible for personal injury or property damage resulting therefrom.
4. **Hot Chassis Warning -**
   a. Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord and maybe safety-serviced without an isolation transformer only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC power source. To confirm that the AC power plug is inserted correctly, with an AC voltmeter, measure between the chassis and a known earth ground. If a voltage reading in excess of 1.0 V is obtained, remove and reinsert the AC power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground.
   b. Some TV receiver chassis normally have 85V AC(RMS) between chassis and earth ground regardless of the AC plug polarity. This chassis can be safety-serviced only with an isolation transformer inserted in the power line between the receiver and the AC power source, for both personnel and test equipment protection.
   c. Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulation material that must not be defeated or altered.
5. Observe original lead dress. Take extra care to assure correct lead dress in the following areas: a. near sharp edges, b. near thermally hot parts-be sure that leads and components do not touch thermally hot parts, c. the AC supply, d. high voltage, and, e. antenna wiring. Always inspect in all areas for pinched, out of place, or frayed wiring. Check AC power cord for damage.
6. Components, parts, and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts, or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.
7. **Product Safety Notice -** Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by a ⚠ on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. The product's safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are strictly inspected to confirm they comply with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

A. Parts identified by the ⚠ symbol are critical for safety.
Replace only with part number specified.

B. In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.
Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.

C. Use specified internal wiring. Note especially:

1) Wires covered with PVC tubing
2) Double insulated wires
3) High voltage leads

D. Use specified insulating materials for hazardous live parts. Note especially:

1) Insulation Tape
2) PVC tubing
3) Spacers
4) Insulators for transistors.

E. When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.

F. Observe that the wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.)

G. Check that replaced wires do not contact sharp edged or pointed parts.

H. When a power cord has been replaced, check that 11~13 lb (5~6 kg) of force in any direction will not loosen it.

I. Also check areas surrounding repaired locations.

J. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

K. When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC supply outlet.

L. When installing parts or assembling the cabinet parts, be sure to use the proper screws and tighten certainly.

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1: Ratings for selected area

AC Line Voltage	Region	Clearance Distance (d), (d')
110 to 130 V	U.S.A. or Canada	≥ 3.2 mm (0.126 inches)

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

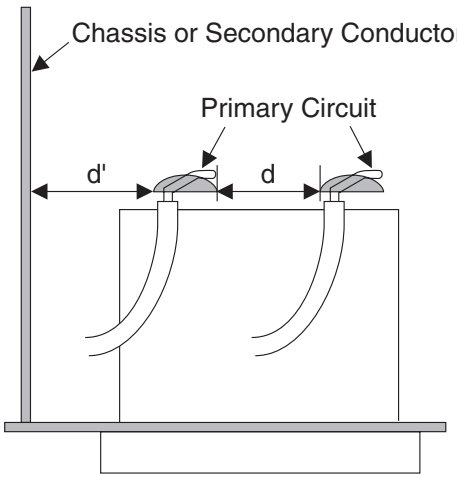


Fig. 1

2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) is lower than or equal to the specified value in the table below.

Measuring Method: (Power ON)

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See Fig. 2 and following table.

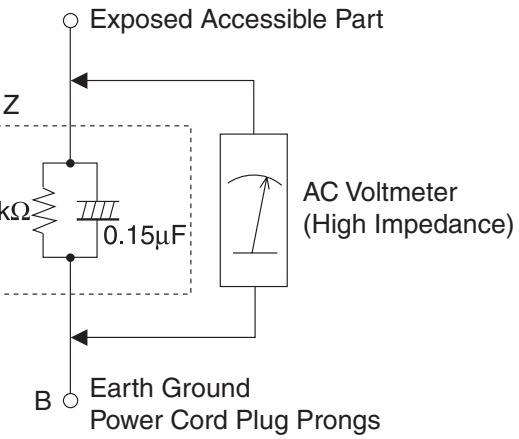


Fig. 2

Table 2: Leakage current ratings for selected areas

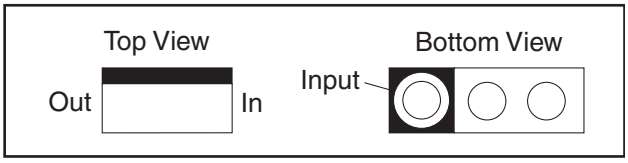
AC Line Voltage	Region	Load Z	Leakage Current (i)	Earth Ground (B) to:
110 to 130 V	U.S.A. or Canada	0.15 μF CAP. & 1.5 kΩ RES. Connected in parallel	i ≤ 0.5 mA rms	Exposed accessible parts

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

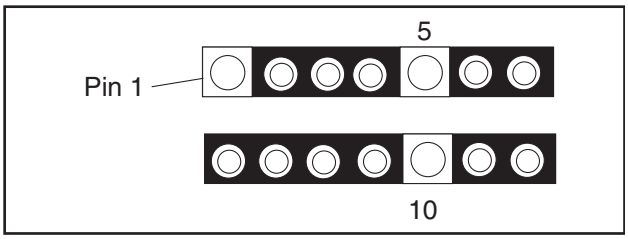
STANDARD NOTES FOR SERVICING

Circuit Board Indications

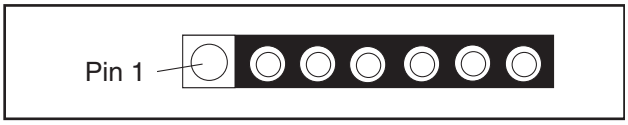
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



2. For other ICs, pin 1 and every fifth pin are indicated as shown.

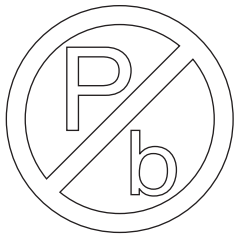


3. The 1st pin of every male connector is indicated as shown.



Pb (Lead) Free Solder

Pb free mark will be found on PCBs which use Pb free solder. (Refer to figure.) For PCBs with Pb free mark, be sure to use Pb free solder. For PCBs without Pb free mark, use standard solder.



Pb free mark

How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:

1. Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)

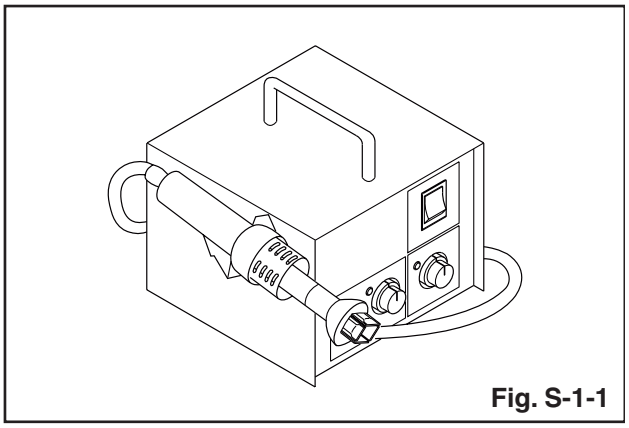


Fig. S-1-1

2. Remove the flat pack-IC with tweezers while applying the hot air.
3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

CAUTION:

1. The Flat Pack-IC shape may differ by models. Use an appropriate hot-air flat pack-IC desoldering machine, whose shape matches that of the Flat Pack-IC.
2. Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)

3. The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.

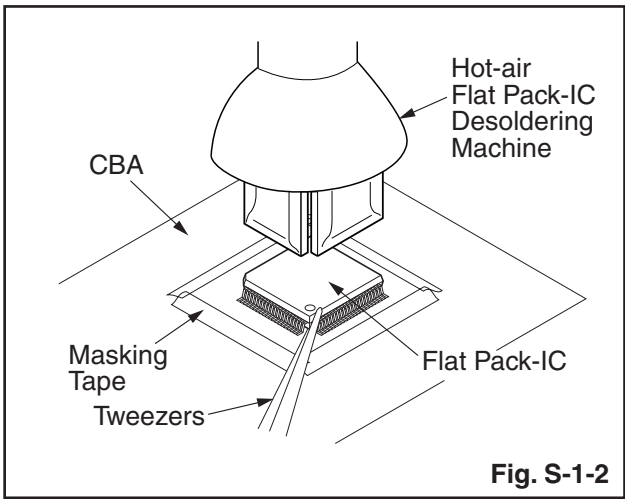


Fig. S-1-2

With Soldering Iron:

1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)

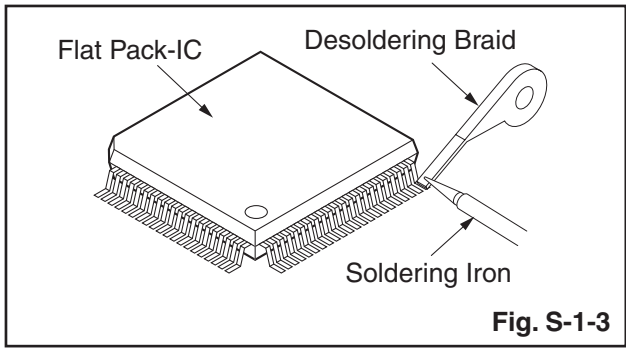


Fig. S-1-3

2. Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)

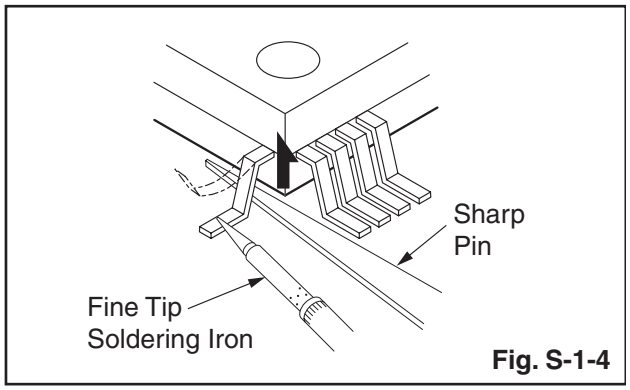


Fig. S-1-4

3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

With Iron Wire:

1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
2. Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
3. While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5.
4. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
5. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Note: When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.

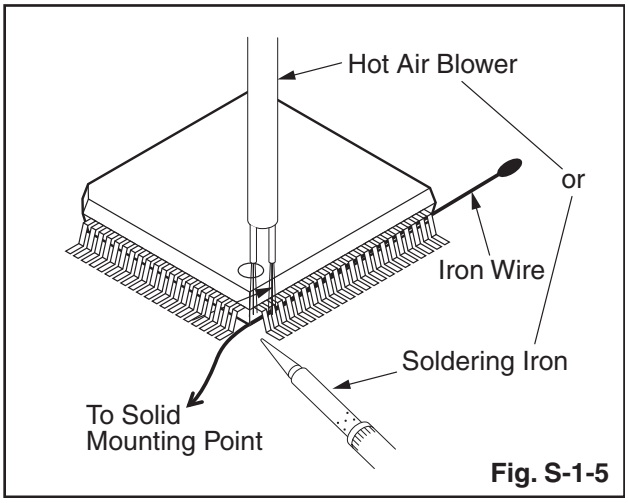


Fig. S-1-5

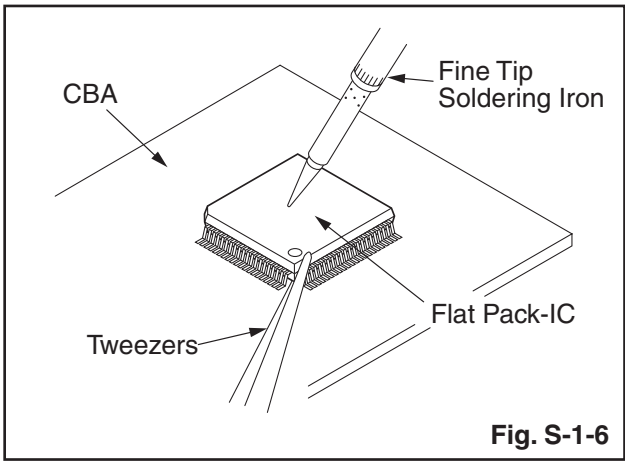


Fig. S-1-6

2. Installation

1. Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
2. The "●" mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the pin 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)
3. Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.

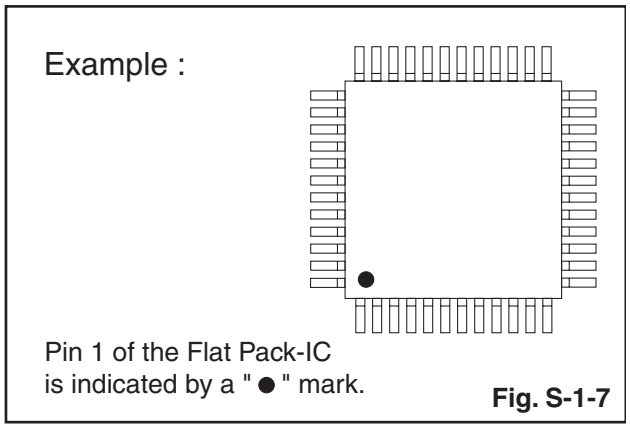


Fig. S-1-7

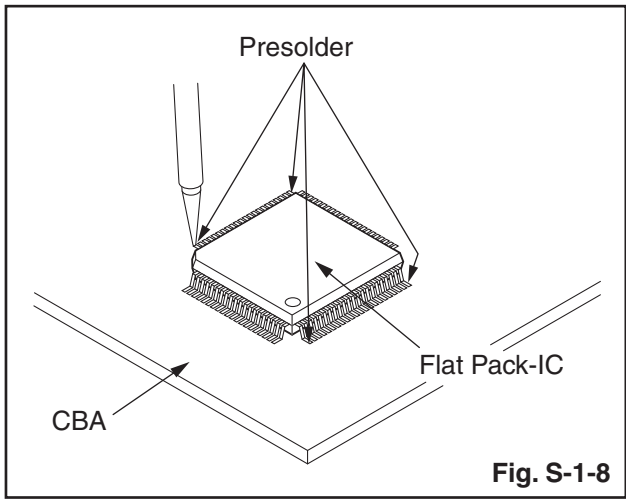


Fig. S-1-8

Instructions for Handling Semi-conductors

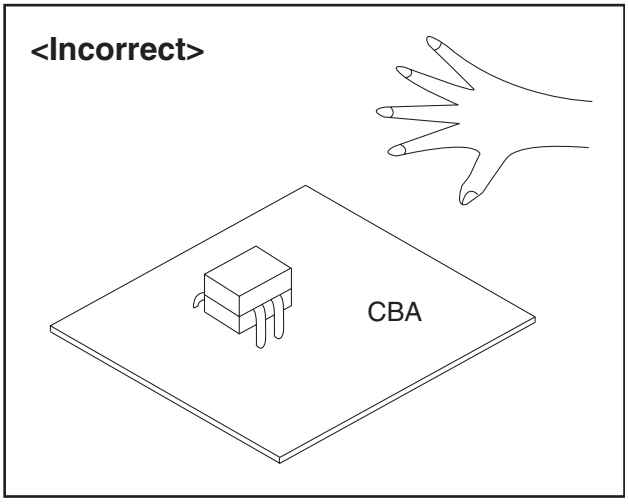
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

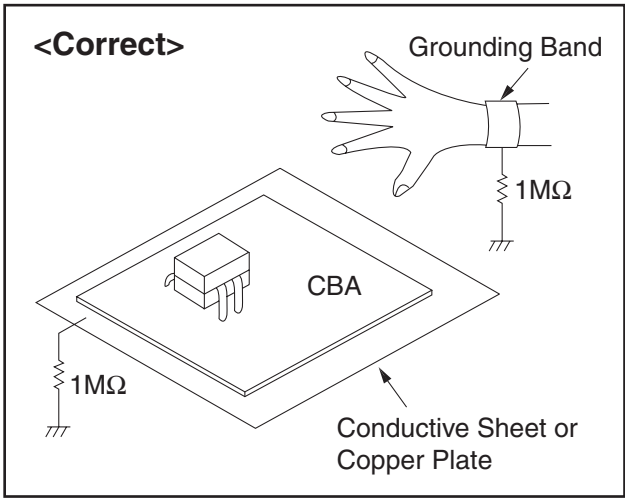
1. Ground for Human Body

Be sure to wear a grounding band (1 MΩ) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

Be sure to place a conductive sheet or copper plate with proper grounding (1 MΩ) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.

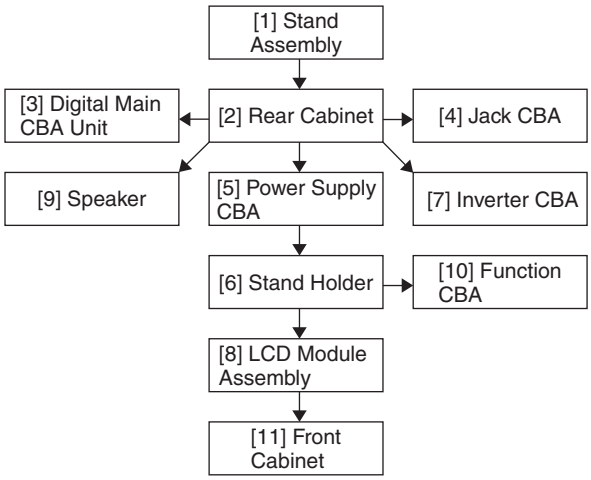




CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps for the cabinet parts and the CBA in order to gain access to items to be serviced. When reassembling, follow the steps in reverse order. Bend, route and dress the cables as they were.



2. Disassembly Method

Step/ Loc. No.	Part	Fig. No.	Removal	Note
[1]	Stand Assembly	D1	4(S-1)	---
[2]	Rear Cabinet	D1	11(S-2), 2(S-3)	---
[3]	Digital Main CBA Unit	D2 D3	4(S-4), 3(S-5), 4(S-6), CN301, CN302, CN3902, Shield Box, Jack Holder(D)	---
[4]	Jack CBA	D2 D3	3(S-7), (S-8), CL701A, PCB Holder, Jack Holder(A)	---
[5]	Power Supply CBA	D2 D3	8(S-9), CN101, CN201, CN631, CN801, CN802	---
[6]	Stand Holder	D2	2(S-10), 2(S-11)	---
[7]	Inverter CBA	D2 D3	6(S-12), CN1201, CN1202, CN1203	---
[8]	LCD Module Assembly	D2	----------	---
[9]	Speaker	D2	4(S-13), Hook, Speaker Holder(L,R)	---
[10]	Function CBA	D2 D3	2(S-14), Shield Plate, Sensor LED Lens, Function Knob	---
[11]	Front Cabinet	D2	----------	---
↓ (1)	↓ (2)	↓ (3)	↓ (4)	↓ (5)

Note:

(1) Order of steps in procedure. When reassembling, follow the steps in reverse order. These numbers are also used as the Identification (location) No. of parts in figures.

(2) Parts to be removed or installed.

(3) Fig. No. showing procedure of part location

(4) Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
P = Spring, L = Locking Tab, S = Screw,
H = Hex Screw, CN = Connector
e.g. 2(S-2) = two Screws of (S-2),
2(L-2) = two Locking Tabs of (L-2)

(5) Refer to the following "Reference Notes in the Table."

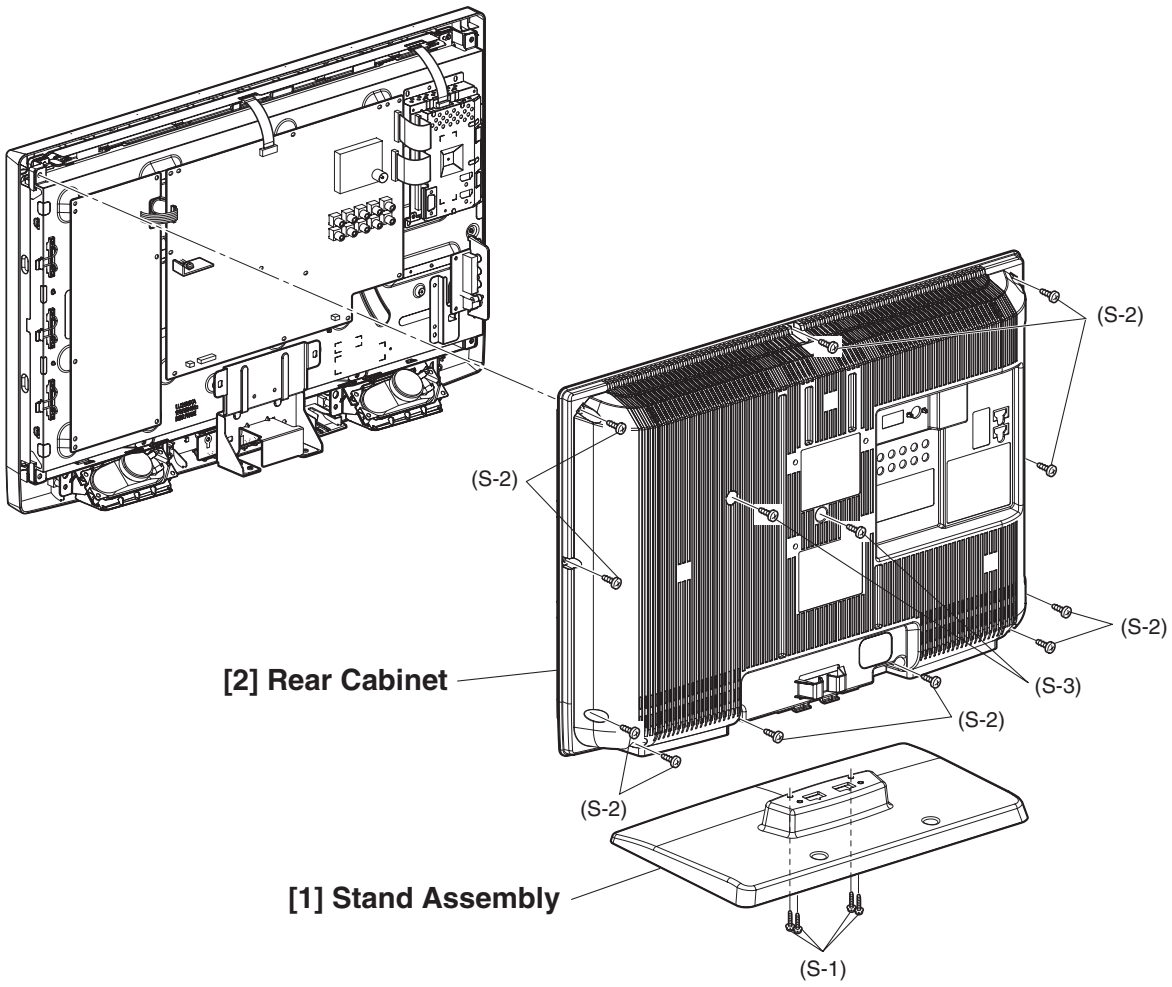


Fig. D1

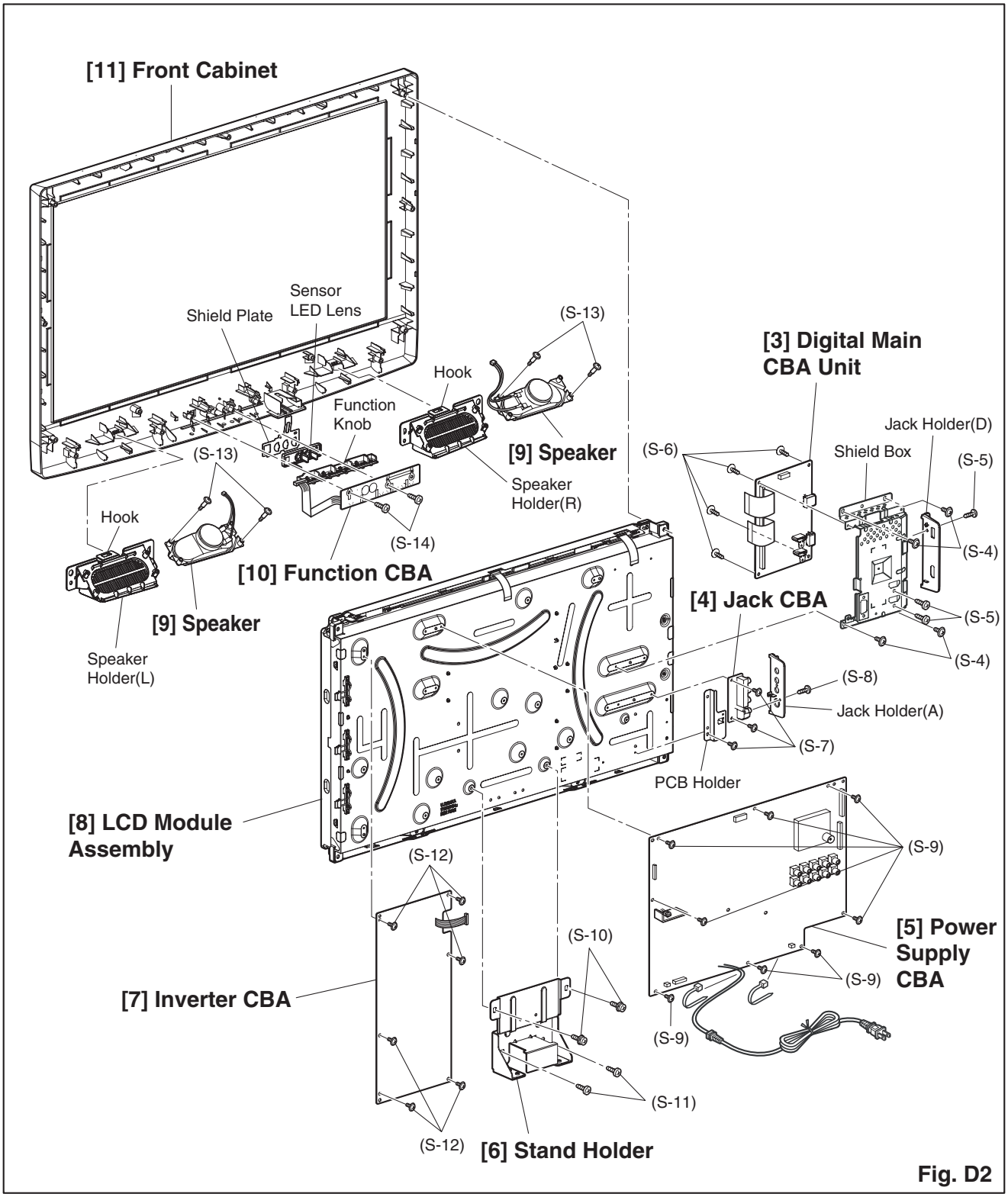

[11] Front Cabinet
Sensor
LED Lens
Shield Plate
(S-13)
Hook
Function
Knob
[9] Speaker
Speaker
Holder(R)
(S-13)
Hook
(S-14)
[10] Function CBA
[9] Speaker
Speaker
Holder(L)
[3] Digital Main
CBA Unit
(S-6)
Jack Holder(D)
Shield Box
(S-5)
(S-4)
[4] Jack CBA
(S-5)
(S-4)
(S-8)
Jack Holder(A)
(S-7)
PCB Holder
[8] LCD Module
Assembly
(S-12)
(S-9)
[5] Power
Supply
CBA
(S-10)
(S-9)
[7] Inverter CBA
(S-9)
(S-11)
(S-12)
[6] Stand Holder

Fig. D2

TV Cable Wiring Diagram

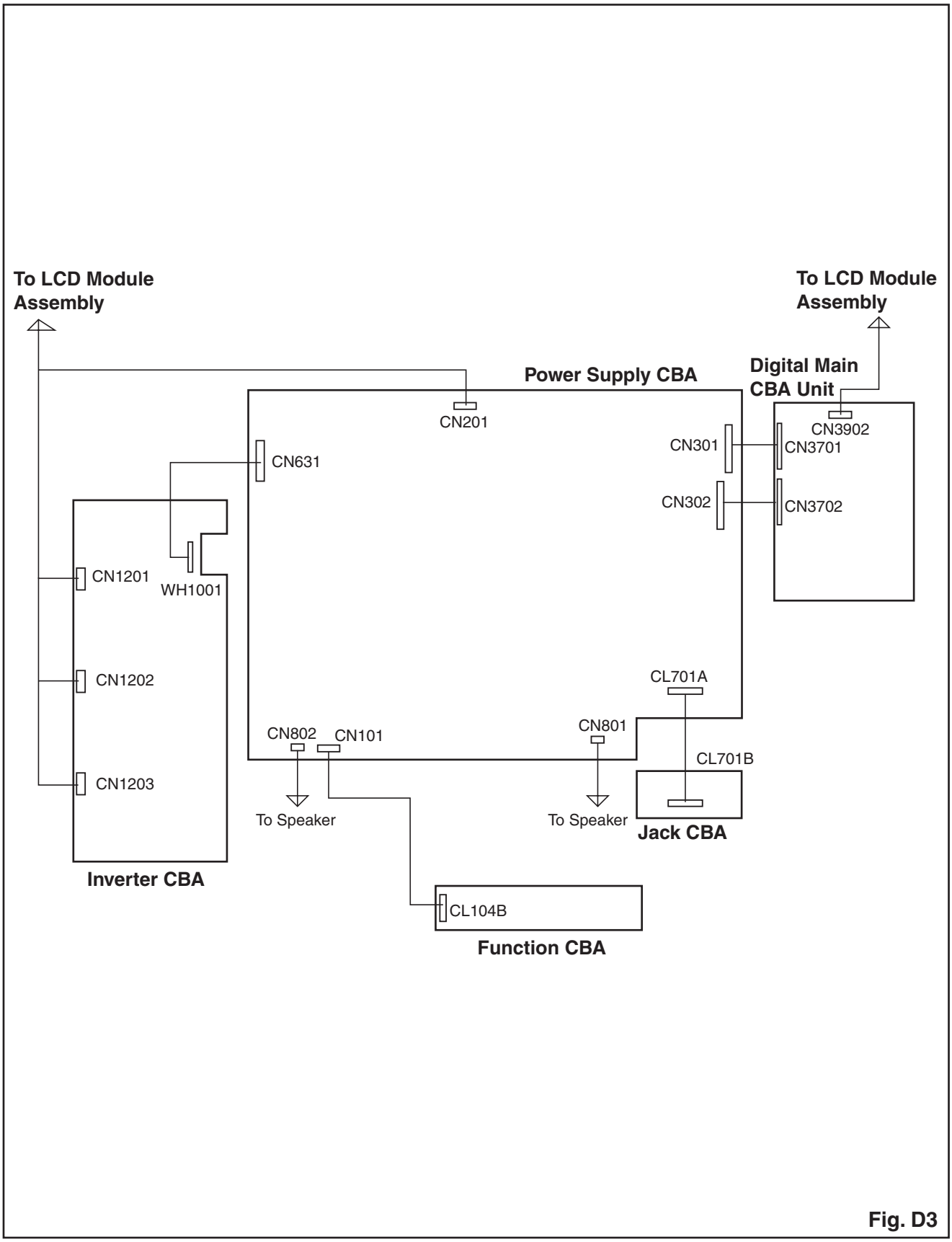


Fig. D3

ELECTRICAL ADJUSTMENT INSTRUCTIONS

General Note: “CBA” is abbreviation for “Circuit Board Assembly.”

Note: Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to perform these adjustments only after all repairs and replacements have been completed.
Also, do not attempt these adjustments unless the proper equipment is available.

Test Equipment Required

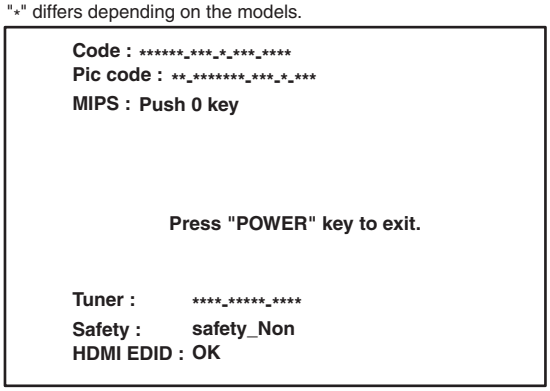
1. NTSC Pattern Generator (Color Bar W/White Window, Red Color, Dot Pattern, Gray Scale, Monoscope, Multi-Burst)
2. Remote control unit
3. Color Analyzer

How to set up the service mode:

Service mode:

1. Turn the power on.
2. Press [MENU] button to display Setup menu.
3. Select “Features”.
4. Select “Current Software Info”.
5. Press [0], [4], [2], [5], [7], [4] and [INFO] buttons on the remote control unit in this order. The following screen appears.

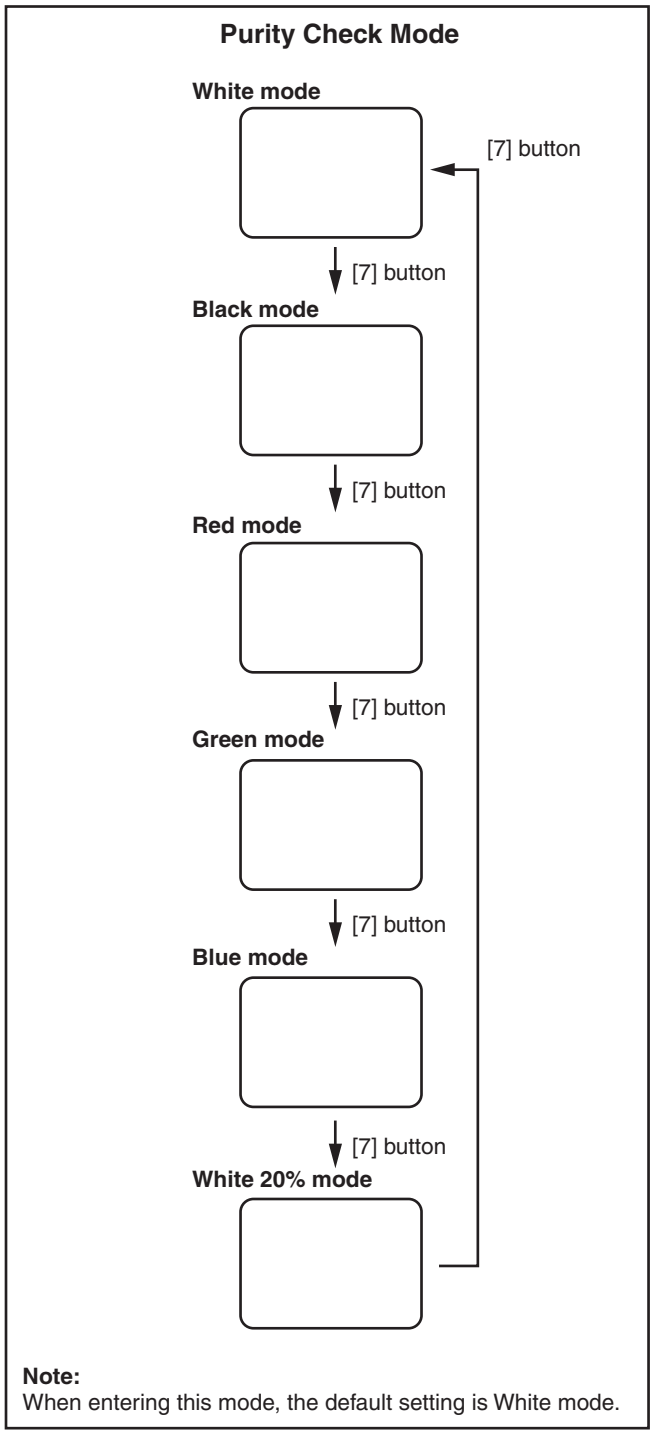
"⋆" differs depending on the models.



1. Purity Check Mode

This mode cycles through full-screen displays of red, green, blue, and white to check for non-active pixels.

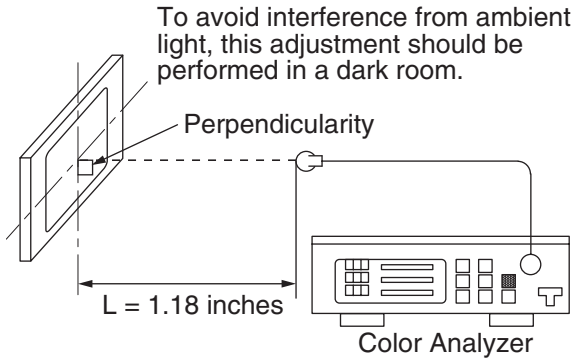
1. Enter the Service mode.
2. Each time the [7] button on the remote control unit is pressed, the display changes as follows.



3. To cancel or to exit from the Purity Check Mode, press [CH RETURN] or [PREV CH] button.

2. VCOM Adjustment

Test Point	Adj. Point
Screen	[CH △/▽] buttons
M. EQ.	**Spec.**
Color analyzer	See below
Figure	


To avoid interference from ambient light, this adjustment should be performed in a dark room.
Perpendicularity
L = 1.18 inches
Color Analyzer

1. Operate the unit for more than 60 minutes.
2. Set the color analyzer at the zero point calibration and bring the optical receptor pointing at the center of the LCD-Panel at a distance of 1.18 inches(3cm) away from the LCD-Panel surface.
   Note: The optical receptor must be set perpendicularly to the LCD Panel surface.
3. Enter the Service mode.
4. Press [3] button on the remote control unit.
5. Press [CH △/▽] buttons on the remote control unit so that the color analyzer value becomes minimum.
6. To cancel or to exit from the VCOM Adjustment, press [CH RETURN] or [PREV CH] button.

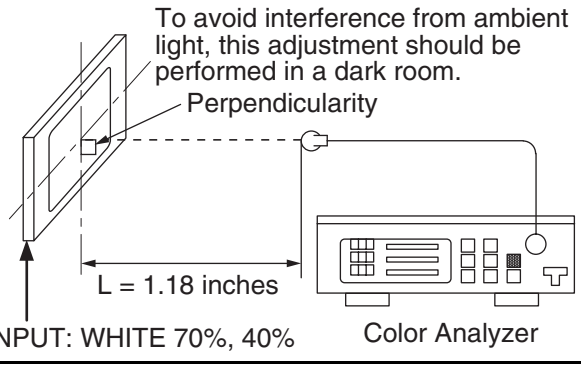
The White Balance Adjustment should be performed when replacing the LCD Panel or Digital Main CBA.

3. White Balance Adjustment

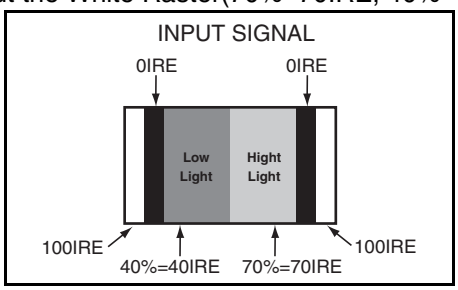
Purpose: To mix red and blue beams correctly for pure white.

Symptom of Misadjustment: White becomes bluish or reddish.

Test Point	Adj. Point	Mode	Input
Screen	[VOL ▽] button	**[VIDEO1]** C/D	White Raster (APL 70%) or (APL 40%)
M. EQ.		**Spec.**	
Pattern Generator, Color analyzer		x= 0.272 ± 0.005 y= 0.278 ± 0.005	
Figure			


To avoid interference from ambient light, this adjustment should be performed in a dark room.
Perpendicularity
L = 1.18 inches
INPUT: WHITE 70%, 40%
Color Analyzer

1. Operate the unit for more than 60 minutes.
2. Input the White Raster(70%=70IRE, 40%=40IRE).



3. Set the color analyzer at the CHROMA mode and zero point calibration. Bring the optical receptor pointing at the center of the LCD-Panel at a distance of 1.18 inches(3cm) away from the LCD-Panel surface.
   Note: The optical receptor must be set perpendicularly to the LCD Panel surface.
4. Enter the Service mode. Press [VOL ▽] button on the remote control unit and select “C/D” mode.
5. **[CUTOFF]**
   Press [1] button to select “COR” for Red Cutoff adjustment. Press [3] button to select “COB” for Blue Cutoff adjustment.
   [DRIVE]
   Press [4] button to select “DR” for Red Drive adjustment. Press [6] button to select “DB” for Blue Drive adjustment.
6. In each color mode, press [CH △/▽] buttons to adjust the values of color.
7. Adjust Cutoff and Drive so that the color temperature becomes 12000°K (x= 0.272 / y= 0.278 ±0.005).
8. To cancel or to exit from the White Balance Adjustment, press [CH RETURN] or [PREV CH] button.

HOW TO INITIALIZE THE LCD TV

The purpose of initialization is to place the set in a new out of box condition. The customer will be prompted to select a language and program channels after the set has been initialized.
To put the program back at the factory-default, initialize the LCD TV using the following procedure.

1. Turn the power on.
2. Enter the service mode.
   - To cancel the service mode, press [⏻] button on the remote control unit.
3. Press [INFO] button on the remote control unit to initialize the LCD television.
4. "INITIALIZED" will appear in the upper right of the screen. "INITIALIZED" color will change to green from red when initializing is completed.

FIRMWARE RENEWAL MODE

Equipment Required

a. USB storage device
b. Remote Control Unit

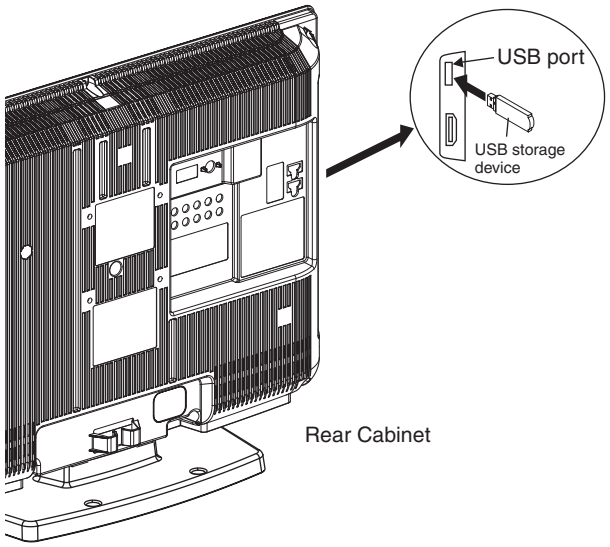
Firmware Update Procedure

Note: There are two states (the User Upgrade and the Factory Upgrade) in firmware update.

User Upgrade	Upgrade the firmware only. The setting values are not initialized.
Factory upgrade	Upgrade the firmware and initialize the setting values.

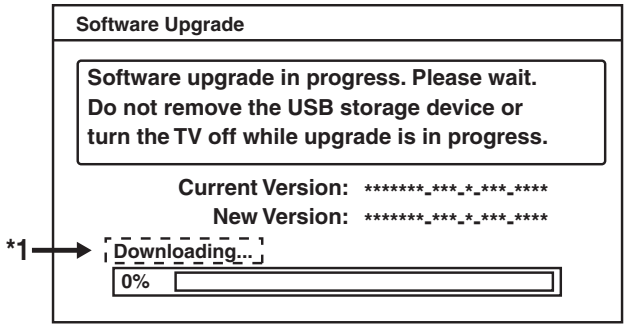
The identification of User Upgrade and Factory Upgrade are done by the filename.

1. Turn the power off and unplug the AC Cord.
2. Insert the USB storage device to the USB port as shown below.



3. Plug the AC cord in the wall outlet and turn the power on.
4. The update will start and the following will appear on the screen.

"⋆" differs depending on the models.

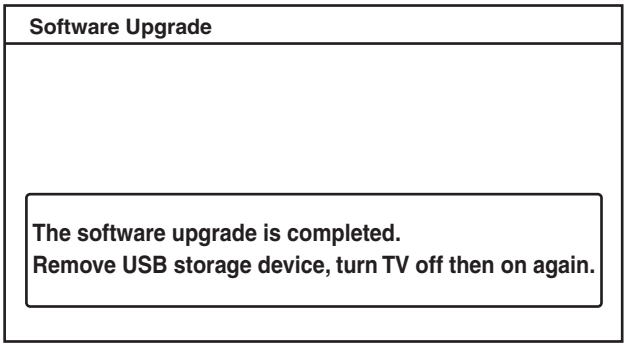


Note: If the above screen isn't displayed, repeat from step 1.

The appearance shown in *1 is described as follows.

Appearance	State
Downloading...	Downloading the firmware from the USB storage device.
Writing...	Writing the downloaded firmware in flash memory.
Checking...	Checking the new firmware.

5. When the firmware update is completed, the following will appear on the screen.



Remove the USB storage device from the USB port.
Turn the power off and turn the power on again.

Note:

When the Factory Upgrade is used, after restarting TV, shift to initial screen menu in service mode. "INITIALIZED" will appear on the upper right of the screen. "INITIALIZED" color will change to green from red when initializing is completed.

TROUBLESHOOTING

[Power Supply Section]

FLOW CHART NO.1

The power cannot be turned on.

↓

Is the fuse (F601) normal?

No → See FLOW CHART No.2 <The fuse blows out.>

↓ Yes

Is normal state restored when once unplugged power cord is plugged again several seconds?

No → Check if there is any leak or short-circuiting on the primary circuit component, and service it if defective. (C605, C606, D601, D602, D603, D604, Q601, Q602, T601)

↓ Yes

Is the INV+35V line voltage normal?

No → (see above)

↓ Yes

Check each rectifying circuit of the secondary circuit and service it if defective.

FLOW CHART NO.2

The fuse blows out.

↓

Check the presence that the primary component is leaking or shorted and service it if defective.

Check the presence that the rectifying diode or circuit is shorted in each rectifying circuit of secondary side, and service it if defective.

↓

After servicing, replace the fuse.

FLOW CHART NO.3

When the output voltage fluctuates.

↓

Does the photocoupler circuit on the secondary side operate normally?

No → Check IC601, D652, Q631 and their periphery circuit, and service it if defective.

↓ Yes

Check IC601, D609, D611 and their periphery, circuit and service it if defective.

FLOW CHART NO.4

When buzz sound can be heard in the vicinity of power circuit.

↓

Check if there is any short-circuit on the rectifying diode and the circuit in each rectifying circuit of the secondary side, and service it if defective. (IC631, Q209, Q210, Q211, Q213, Q635, Q636, Q637, Q640, Q641, Q642, Q643, D631, D632, D633, D634, D636, D638, D641, D642, D646, D647)

FLOW CHART NO.5

INV+35V is not output.

↓

Is approximately +32V voltage supplied to the cathode of D636?

No → Check C638, D634, D636, D639 and their periphery circuit, and service it if defective.

↓ Yes

Check if there is any leak or short-circuit onthe loaded circuit, and service it if defective.

FLOW CHART NO.6

LCD+24V is not output.

↓

Is approximately +30V voltage supplied to the collector of Q210?

No → See FLOW CHART No.5 <INV+35V is not output.>

↓ Yes

Check Q207, Q208, D205, P-ON-H1 line and their periphery circuit, and service it if defective.

FLOW CHART NO.7

LCD+13V is not output.

↓

Is approximately +15V voltage supplied to the collector of Q209?

No → Check C631, D631, D635 and their periphery circuit, and service it if defective.

↓ Yes

Is approximately +14V voltage supplied to the base of Q209?

No → Check Q207, Q208, D203, D204, D211 and their periphery circuit, and service it if defective.

↓ Yes

Replace Q209.

FLOW CHART NO.8

P-ON+7V is not output.

↓

Is approximately +7V voltage supplied to the collector of D646?

No → Check C644, D646 and their periphery circuit, and service it if defective.

↓ Yes

Check if there is any leak or short-circuit on the loaded circuit, and service it if defective.

FLOW CHART NO.9

P-ON+5V is not output. (LCD+13V is outputted normally.)

↓

Is approximately +7V voltage supplied to the collector of Q641?

No → See FLOW CHART No.8 <P-ON+7V is not output.>

↓ Yes

Is approximately +6V voltage supplied to the base of Q641?

No → Check D645 and their periphery circuit, and service it if defective.

↓ Yes

Replace Q641.

FLOW CHART NO.10

TUNER+5V is not output. (LCD+13V is outputted normally.)

Is approximately +6.7V voltage supplied to the collector of Q640?

No → See FLOW CHART No.8 <P-ON+7V is not output.>

Yes

Is approximately +6V voltage supplied to the base of Q640?

No → Check D645 and their periphery circuit, and service it if defective.

Yes

Replace Q640.

FLOW CHART NO.11

AL+13V is not output.

Is approximately +13V voltage supplied to the cathode of D641 and D642?

No → Check C639, D641, D642 and their periphery circuit, and service it if defective.

Yes

Check if there is any leak or short-circuit on the loaded circuit, and service it if defective.

FLOW CHART NO.12

P-ON+3V is not output.

Is approximately +3V voltage supplied to the cathode of D647?

No → Check C645, D647 and their periphery circuit, and service it if defective.

Yes

Check if there is any leak or short-circuit on the loaded circuit, and service it if defective.

FLOW CHART NO.13

P-ON+3.3V is not output.

Is approximately +5V voltage supplied to the cathode of D633?

No → Check C633, D633 and their periphery circuit, and service it if defective.

Yes

Is the "H" signal (approximately +4 V) inputted to the base of Q637?

No → Check Q638, Q639, D666, P-ON-H2 line and their periphery circuit, and service it if defective.

Yes

Replace Q637.

FLOW CHART NO.14

P-ON+9V is not output. (LCD+13V is outputted normally.)

Is approximately +13V voltage supplied to the collector of Q642?

No → See FLOW CHART No.11 <AL+13V is not output.>

Yes

Is approximately +10V voltage supplied to the base of Q642?

No → Check D670 and their periphery circuit, and service it if defective.

Yes

Replace Q642.

FLOW CHART NO.15

AL+3.3V is not output.

Is approximately +32V voltage supplied to the collector of Q635?

No → See FLOW CHART No.5 <INV+35V is not output.>

Yes

Is approximately +5V voltage supplied to Pin(3) of IC631?

No → Check Q635, D659 and their periphery circuit, and service it if defective.

Yes

Replace IC631.

FLOW CHART NO.16

LCD-6V is not output.

Is approximately -7V voltage supplied to the Anode of D632?

No → Check C632, D632 and their periphery circuit, and service it if defective.

Yes

Is approximately -6.5V voltage supplied to the base of Q211?

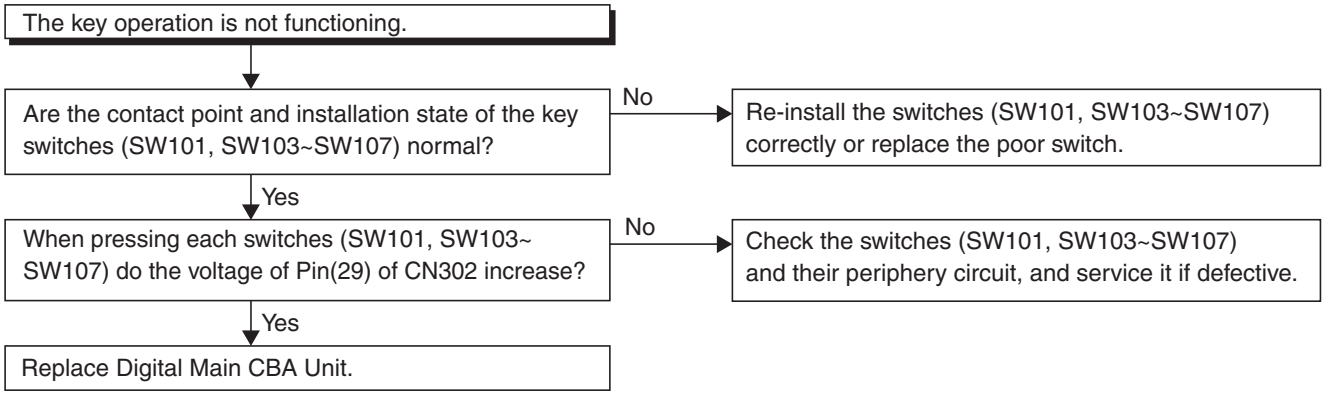
No → Check Q207, Q208, D208, P-ON-H1 line and their periphery circuit, and service it if defective.

Yes

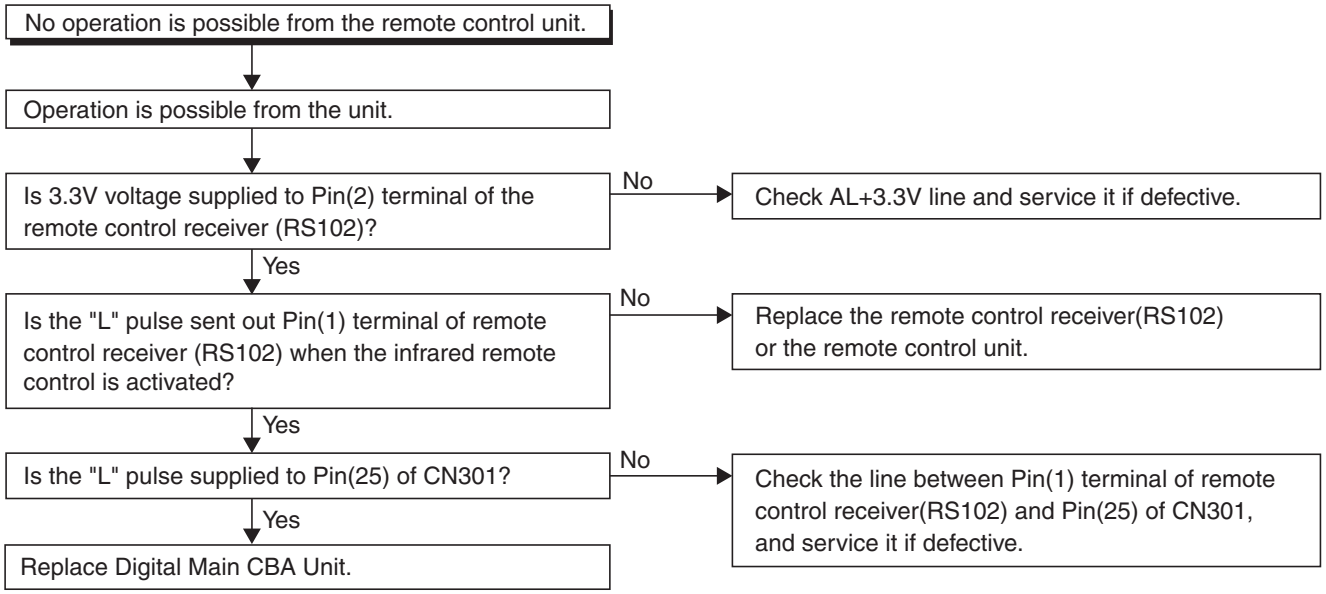
Replace Q211.

[Video Signal Section]

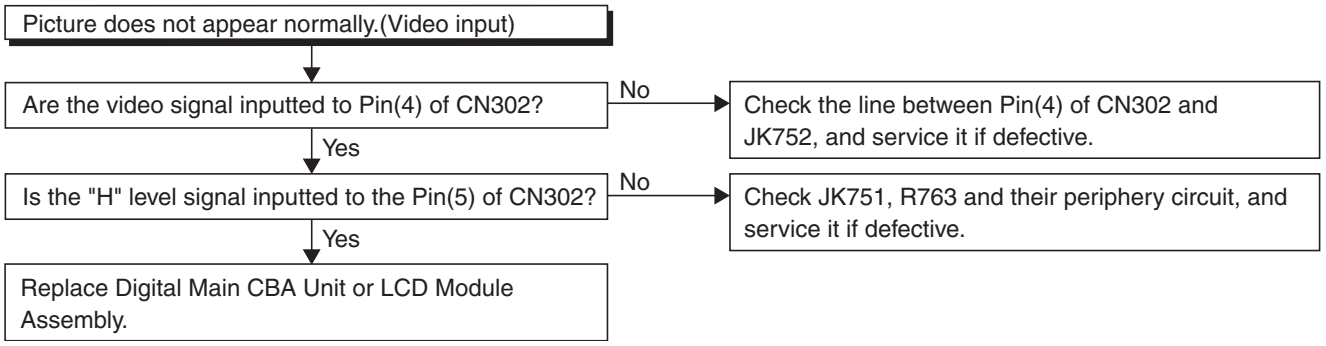
FLOW CHART NO.1


The key operation is not functioning.
Are the contact point and installation state of the key switches (SW101, SW103~SW107) normal?
No
Re-install the switches (SW101, SW103~SW107) correctly or replace the poor switch.
Yes
When pressing each switches (SW101, SW103~ SW107) do the voltage of Pin(29) of CN302 increase?
No
Check the switches (SW101, SW103~SW107) and their periphery circuit, and service it if defective.
Yes
Replace Digital Main CBA Unit.

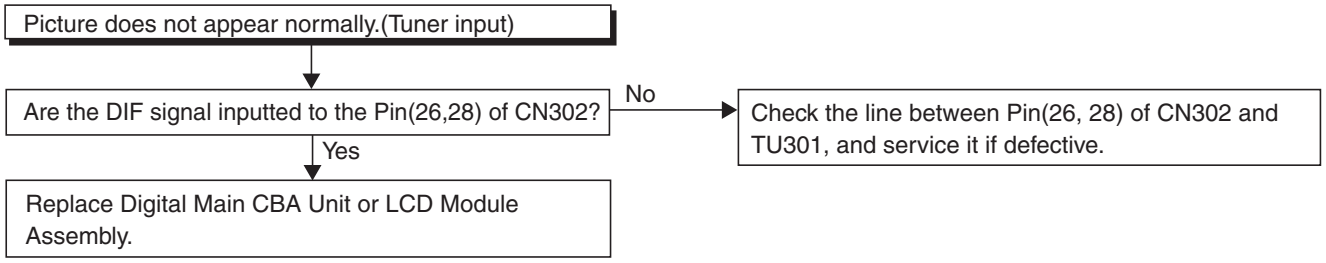
FLOW CHART NO.2


No operation is possible from the remote control unit.
Operation is possible from the unit.
Is 3.3V voltage supplied to Pin(2) terminal of the remote control receiver (RS102)?
No
Check AL+3.3V line and service it if defective.
Yes
Is the "L" pulse sent out Pin(1) terminal of remote control receiver (RS102) when the infrared remote control is activated?
No
Replace the remote control receiver(RS102) or the remote control unit.
Yes
Is the "L" pulse supplied to Pin(25) of CN301?
No
Check the line between Pin(1) terminal of remote control receiver(RS102) and Pin(25) of CN301, and service it if defective.
Yes
Replace Digital Main CBA Unit.

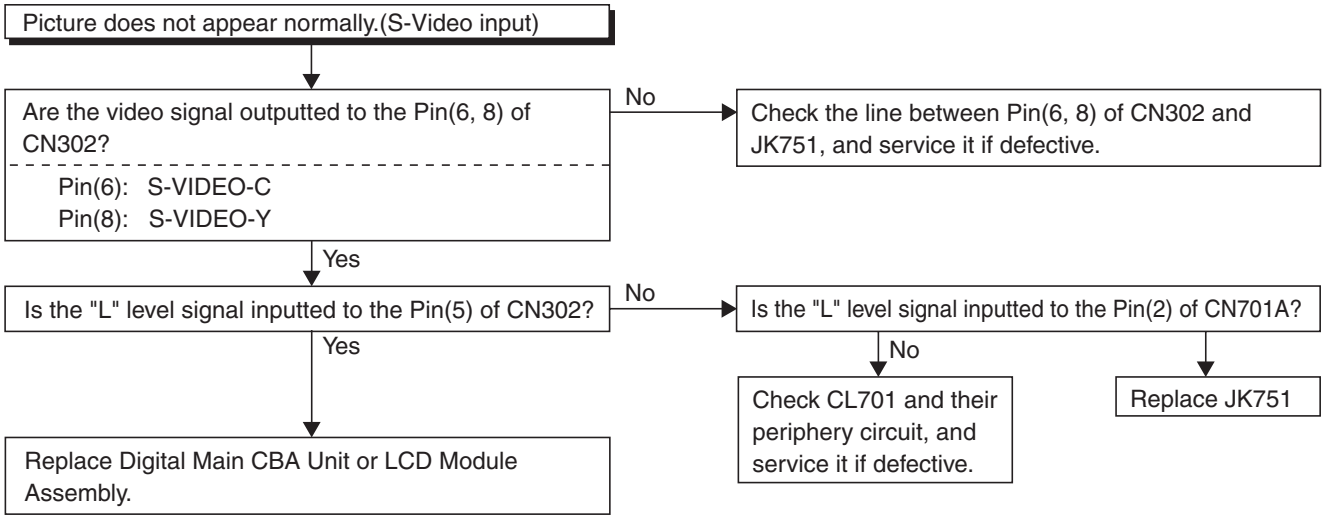
FLOW CHART NO.3


Picture does not appear normally.(Video input)
Are the video signal inputted to Pin(4) of CN302?
No
Check the line between Pin(4) of CN302 and JK752, and service it if defective.
Yes
Is the "H" level signal inputted to the Pin(5) of CN302?
No
Check JK751, R763 and their periphery circuit, and service it if defective.
Yes
Replace Digital Main CBA Unit or LCD Module Assembly.

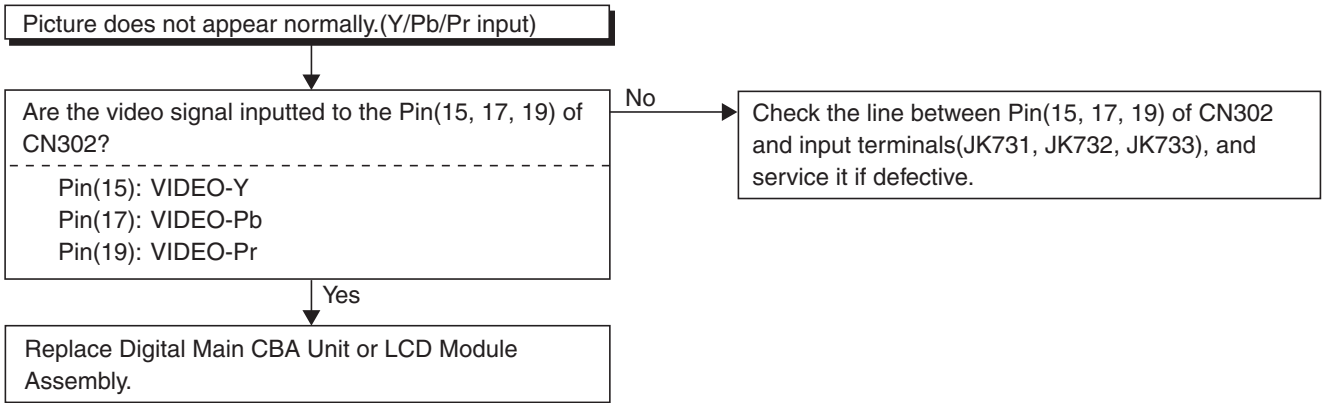
FLOW CHART NO.4


Picture does not appear normally.(Tuner input)
Are the DIF signal inputted to the Pin(26,28) of CN302?
No
Check the line between Pin(26, 28) of CN302 and TU301, and service it if defective.
Yes
Replace Digital Main CBA Unit or LCD Module Assembly.

FLOW CHART NO.5

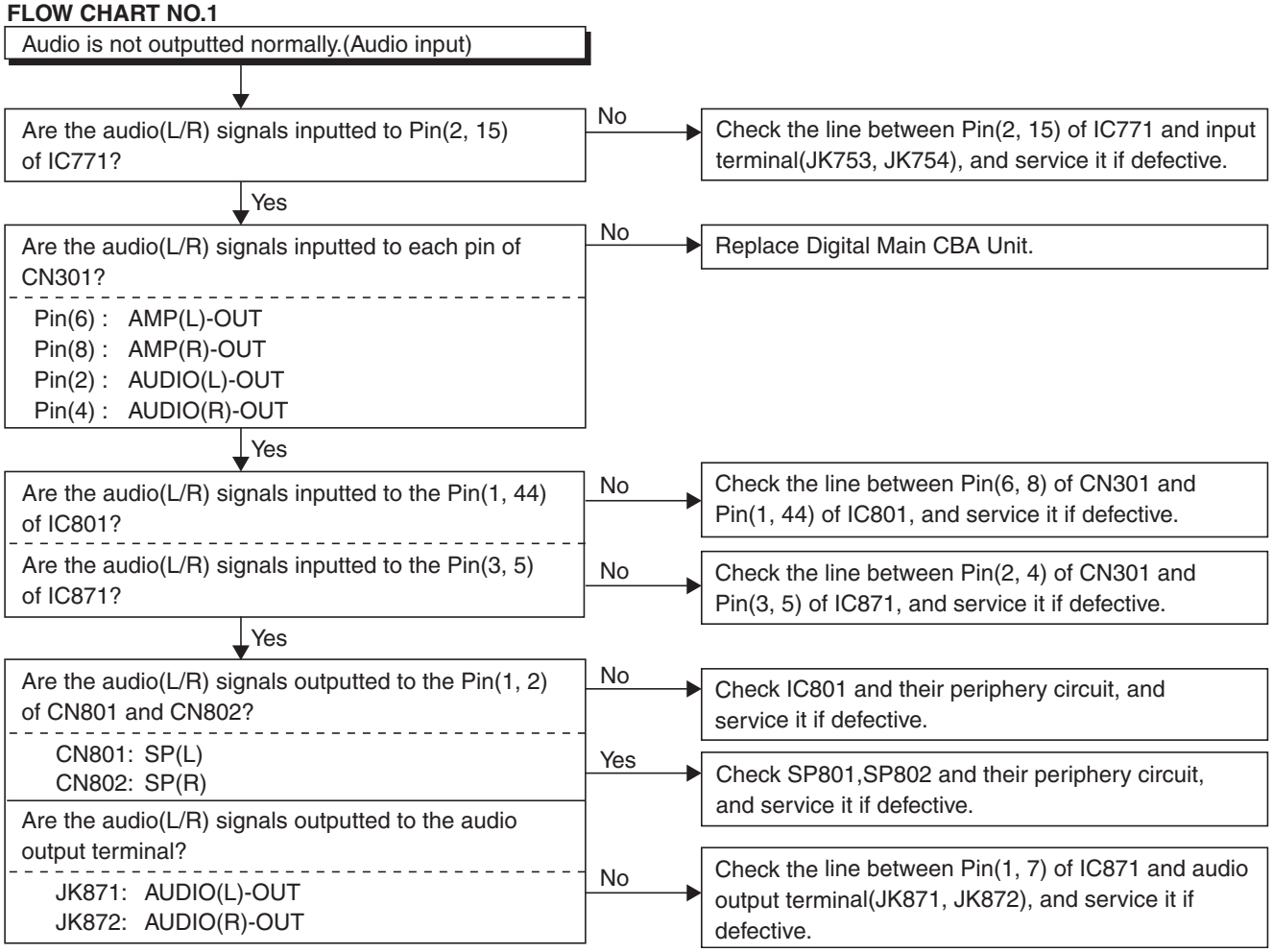

Picture does not appear normally.(S-Video input)
Are the video signal outputted to the Pin(6, 8) of CN302?
Pin(6): S-VIDEO-C
Pin(8): S-VIDEO-Y
No
Check the line between Pin(6, 8) of CN302 and JK751, and service it if defective.
Yes
Is the "L" level signal inputted to the Pin(5) of CN302?
No
Is the "L" level signal inputted to the Pin(2) of CN701A?
No
Check CL701 and their periphery circuit, and service it if defective.
Replace JK751
Yes
Replace Digital Main CBA Unit or LCD Module Assembly.

FLOW CHART NO.6

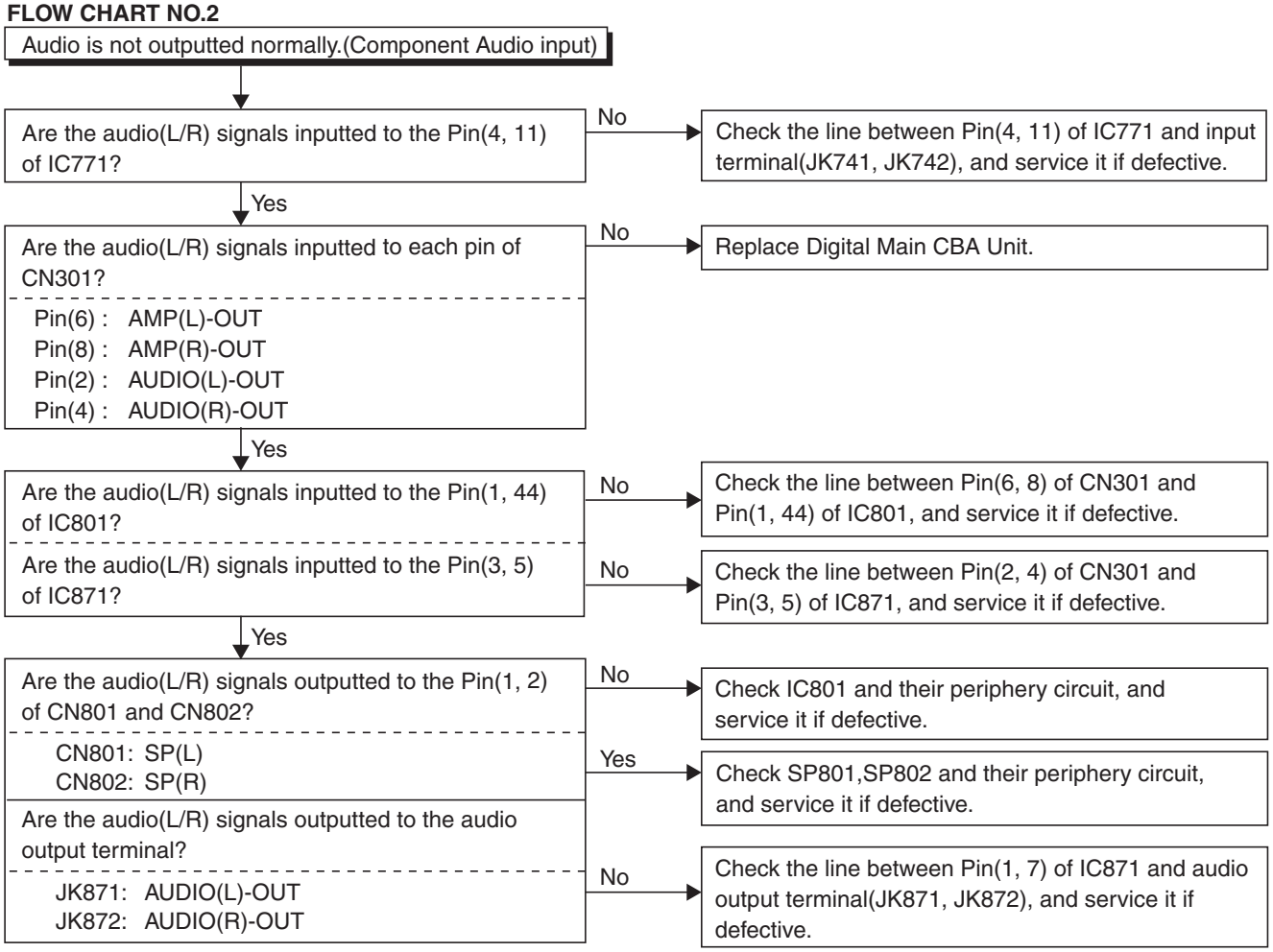

Picture does not appear normally.(Y/Pb/Pr input)
Are the video signal inputted to the Pin(15, 17, 19) of CN302?
Pin(15): VIDEO-Y
Pin(17): VIDEO-Pb
Pin(19): VIDEO-Pr
No
Check the line between Pin(15, 17, 19) of CN302 and input terminals(JK731, JK732, JK733), and service it if defective.
Yes
Replace Digital Main CBA Unit or LCD Module Assembly.

[Audio Signal Section]

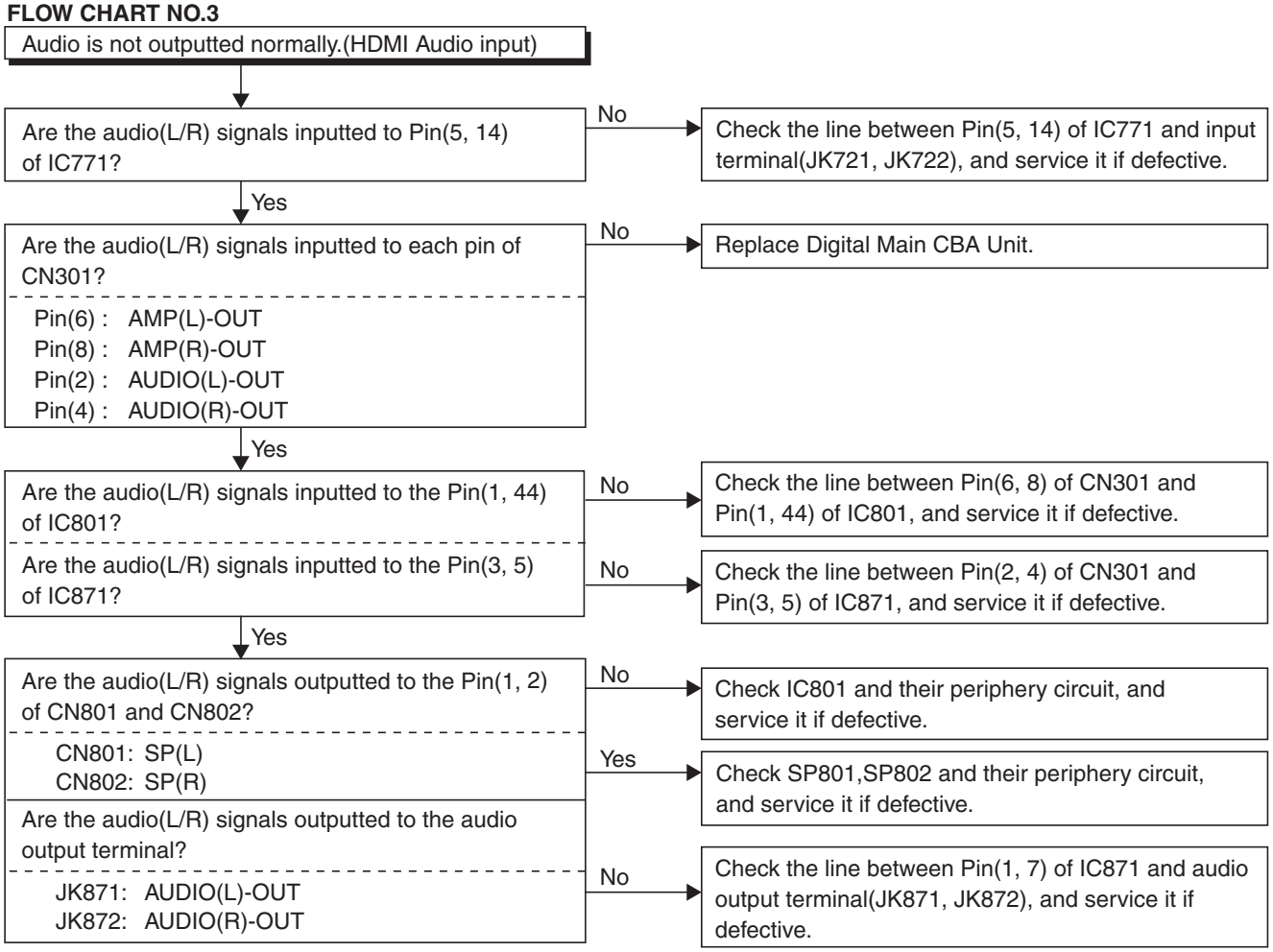
FLOW CHART NO.1


Audio is not outputted normally.(Audio input)
Are the audio(L/R) signals inputted to Pin(2, 15) of IC771?
No
Check the line between Pin(2, 15) of IC771 and input terminal(JK753, JK754), and service it if defective.
Yes
Are the audio(L/R) signals inputted to each pin of CN301?
Pin(6) : AMP(L)-OUT
Pin(8) : AMP(R)-OUT
Pin(2) : AUDIO(L)-OUT
Pin(4) : AUDIO(R)-OUT
No
Replace Digital Main CBA Unit.
Yes
Are the audio(L/R) signals inputted to the Pin(1, 44) of IC801?
No
Check the line between Pin(6, 8) of CN301 and Pin(1, 44) of IC801, and service it if defective.
Are the audio(L/R) signals inputted to the Pin(3, 5) of IC871?
No
Check the line between Pin(2, 4) of CN301 and Pin(3, 5) of IC871, and service it if defective.
Yes
Are the audio(L/R) signals outputted to the Pin(1, 2) of CN801 and CN802?
No
Check IC801 and their periphery circuit, and service it if defective.
CN801: SP(L)
CN802: SP(R)
Yes
Check SP801,SP802 and their periphery circuit, and service it if defective.
Are the audio(L/R) signals outputted to the audio output terminal?
JK871: AUDIO(L)-OUT
JK872: AUDIO(R)-OUT
No
Check the line between Pin(1, 7) of IC871 and audio output terminal(JK871, JK872), and service it if defective.

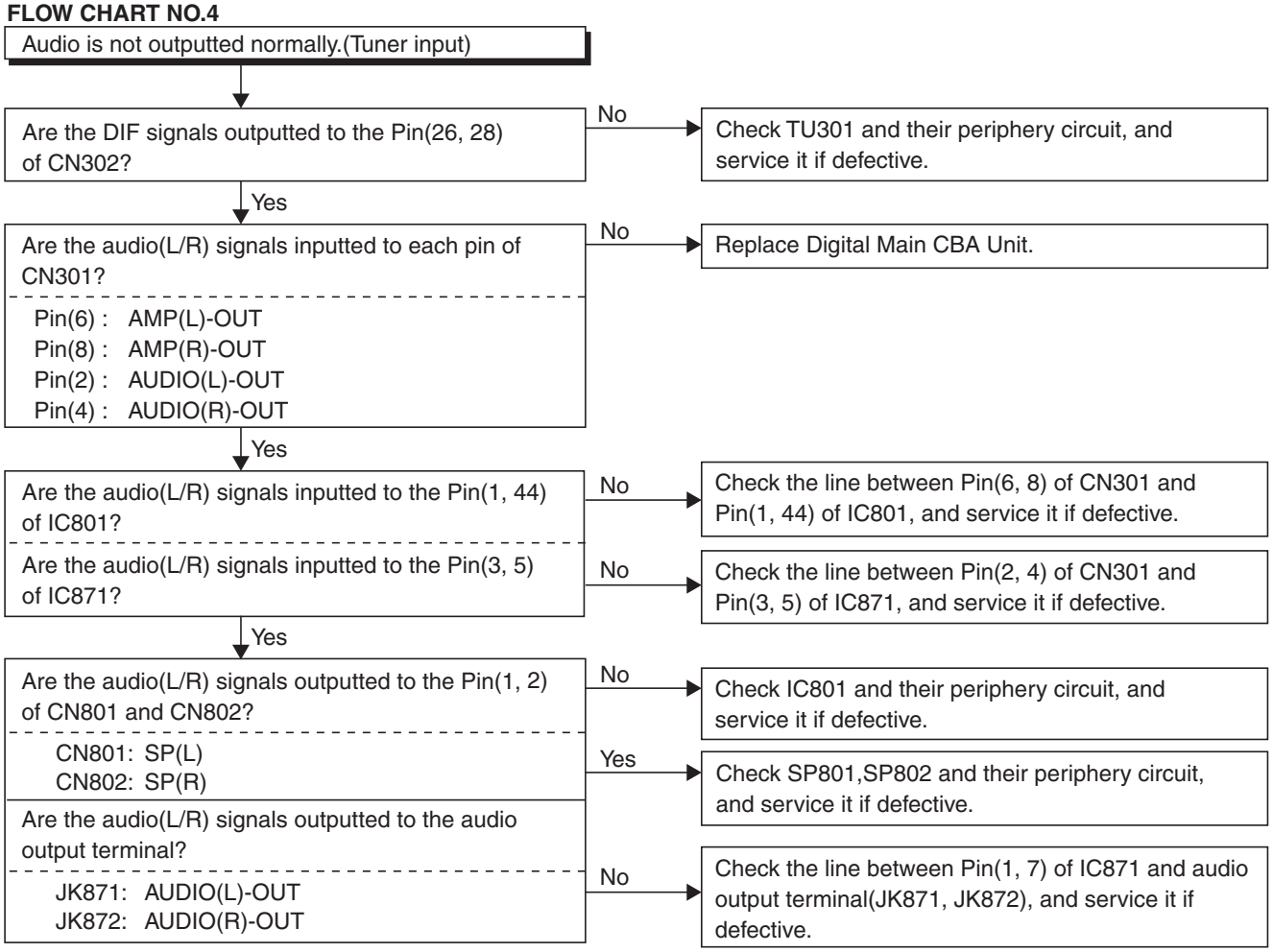
FLOW CHART NO.2


Audio is not outputted normally.(Component Audio input)
Are the audio(L/R) signals inputted to the Pin(4, 11) of IC771?
No
Check the line between Pin(4, 11) of IC771 and input terminal(JK741, JK742), and service it if defective.
Yes
Are the audio(L/R) signals inputted to each pin of CN301?
Pin(6) : AMP(L)-OUT
Pin(8) : AMP(R)-OUT
Pin(2) : AUDIO(L)-OUT
Pin(4) : AUDIO(R)-OUT
No
Replace Digital Main CBA Unit.
Yes
Are the audio(L/R) signals inputted to the Pin(1, 44) of IC801?
No
Check the line between Pin(6, 8) of CN301 and Pin(1, 44) of IC801, and service it if defective.
Are the audio(L/R) signals inputted to the Pin(3, 5) of IC871?
No
Check the line between Pin(2, 4) of CN301 and Pin(3, 5) of IC871, and service it if defective.
Yes
Are the audio(L/R) signals outputted to the Pin(1, 2) of CN801 and CN802?
No
Check IC801 and their periphery circuit, and service it if defective.
CN801: SP(L)
CN802: SP(R)
Yes
Check SP801,SP802 and their periphery circuit, and service it if defective.
Are the audio(L/R) signals outputted to the audio output terminal?
JK871: AUDIO(L)-OUT
JK872: AUDIO(R)-OUT
No
Check the line between Pin(1, 7) of IC871 and audio output terminal(JK871, JK872), and service it if defective.

FLOW CHART NO.3

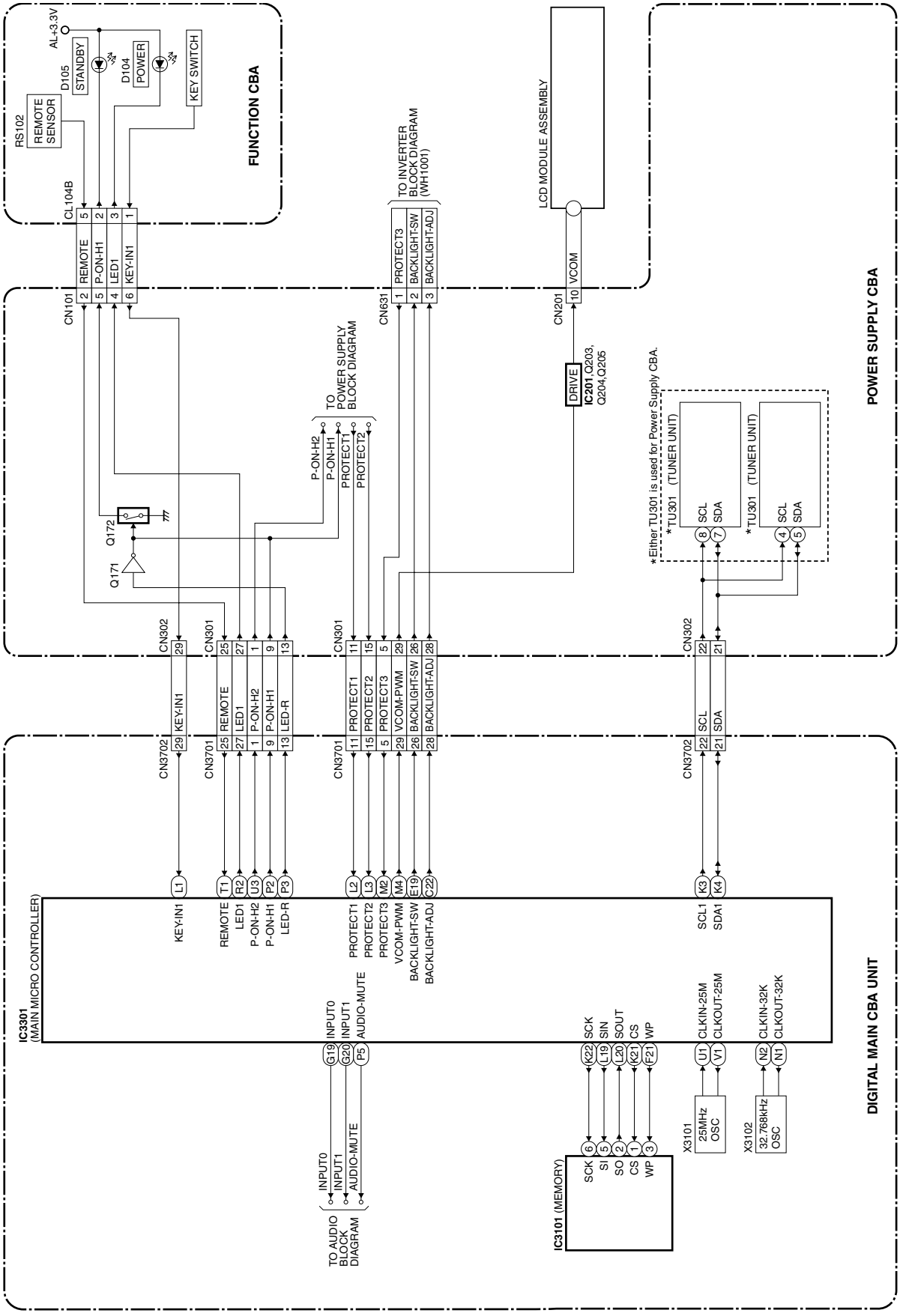

Audio is not outputted normally.(HDMI Audio input)
Are the audio(L/R) signals inputted to Pin(5, 14) of IC771?
No
Check the line between Pin(5, 14) of IC771 and input terminal(JK721, JK722), and service it if defective.
Yes
Are the audio(L/R) signals inputted to each pin of CN301?
Pin(6) : AMP(L)-OUT
Pin(8) : AMP(R)-OUT
Pin(2) : AUDIO(L)-OUT
Pin(4) : AUDIO(R)-OUT
No
Replace Digital Main CBA Unit.
Yes
Are the audio(L/R) signals inputted to the Pin(1, 44) of IC801?
No
Check the line between Pin(6, 8) of CN301 and Pin(1, 44) of IC801, and service it if defective.
Are the audio(L/R) signals inputted to the Pin(3, 5) of IC871?
No
Check the line between Pin(2, 4) of CN301 and Pin(3, 5) of IC871, and service it if defective.
Yes
Are the audio(L/R) signals outputted to the Pin(1, 2) of CN801 and CN802?
No
Check IC801 and their periphery circuit, and service it if defective.
CN801: SP(L)
CN802: SP(R)
Yes
Check SP801,SP802 and their periphery circuit, and service it if defective.
Are the audio(L/R) signals outputted to the audio output terminal?
JK871: AUDIO(L)-OUT
JK872: AUDIO(R)-OUT
No
Check the line between Pin(1, 7) of IC871 and audio output terminal(JK871, JK872), and service it if defective.

FLOW CHART NO.4

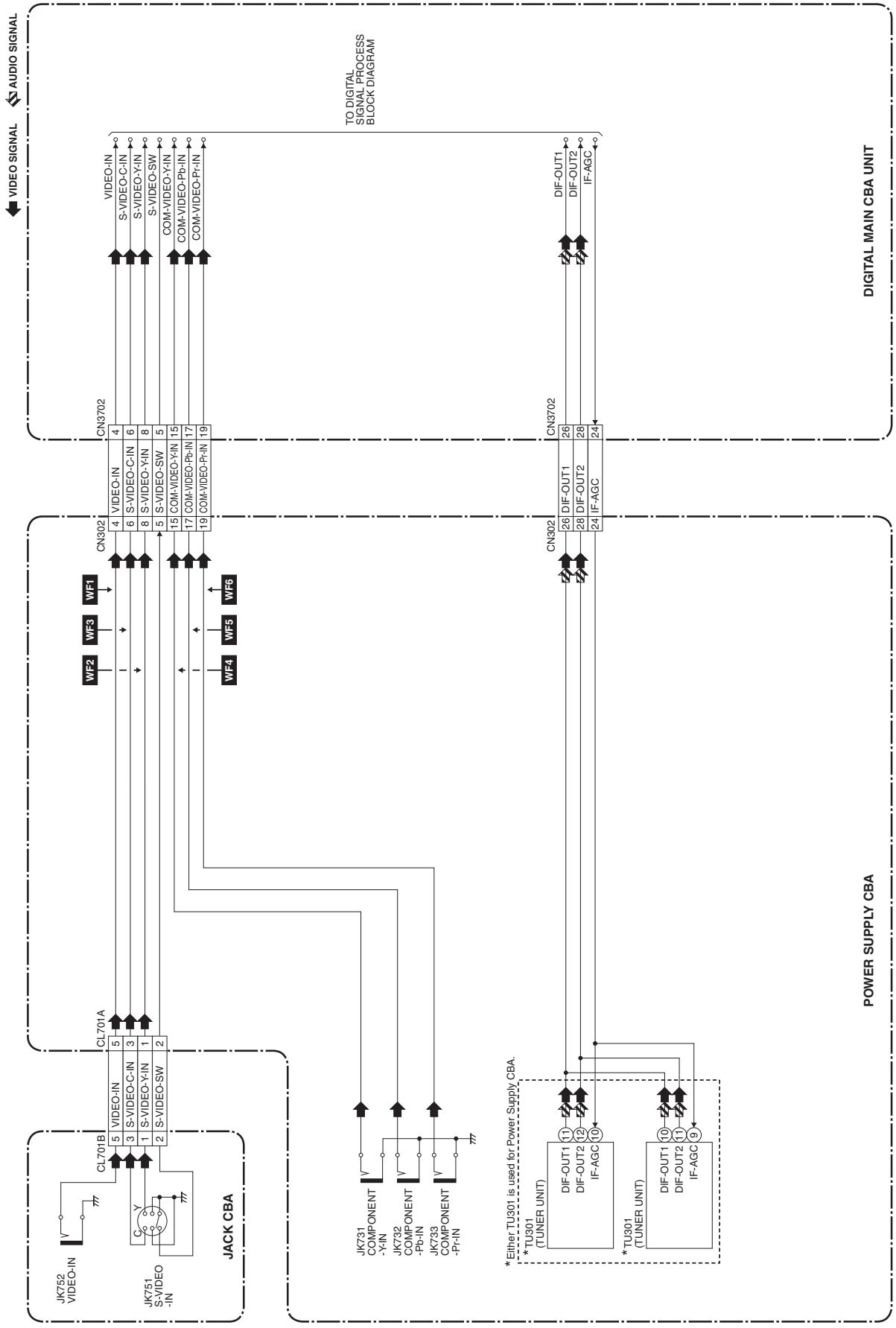

Audio is not outputted normally.(Tuner input)
Are the DIF signals outputted to the Pin(26, 28) of CN302?
No
Check TU301 and their periphery circuit, and service it if defective.
Yes
Are the audio(L/R) signals inputted to each pin of CN301?
Pin(6) : AMP(L)-OUT
Pin(8) : AMP(R)-OUT
Pin(2) : AUDIO(L)-OUT
Pin(4) : AUDIO(R)-OUT
No
Replace Digital Main CBA Unit.
Yes
Are the audio(L/R) signals inputted to the Pin(1, 44) of IC801?
No
Check the line between Pin(6, 8) of CN301 and Pin(1, 44) of IC801, and service it if defective.
Are the audio(L/R) signals inputted to the Pin(3, 5) of IC871?
No
Check the line between Pin(2, 4) of CN301 and Pin(3, 5) of IC871, and service it if defective.
Yes
Are the audio(L/R) signals outputted to the Pin(1, 2) of CN801 and CN802?
No
Check IC801 and their periphery circuit, and service it if defective.
CN801: SP(L)
CN802: SP(R)
Yes
Check SP801,SP802 and their periphery circuit, and service it if defective.
Are the audio(L/R) signals outputted to the audio output terminal?
JK871: AUDIO(L)-OUT
JK872: AUDIO(R)-OUT
No
Check the line between Pin(1, 7) of IC871 and audio output terminal(JK871, JK872), and service it if defective.

BLOCK DIAGRAMS

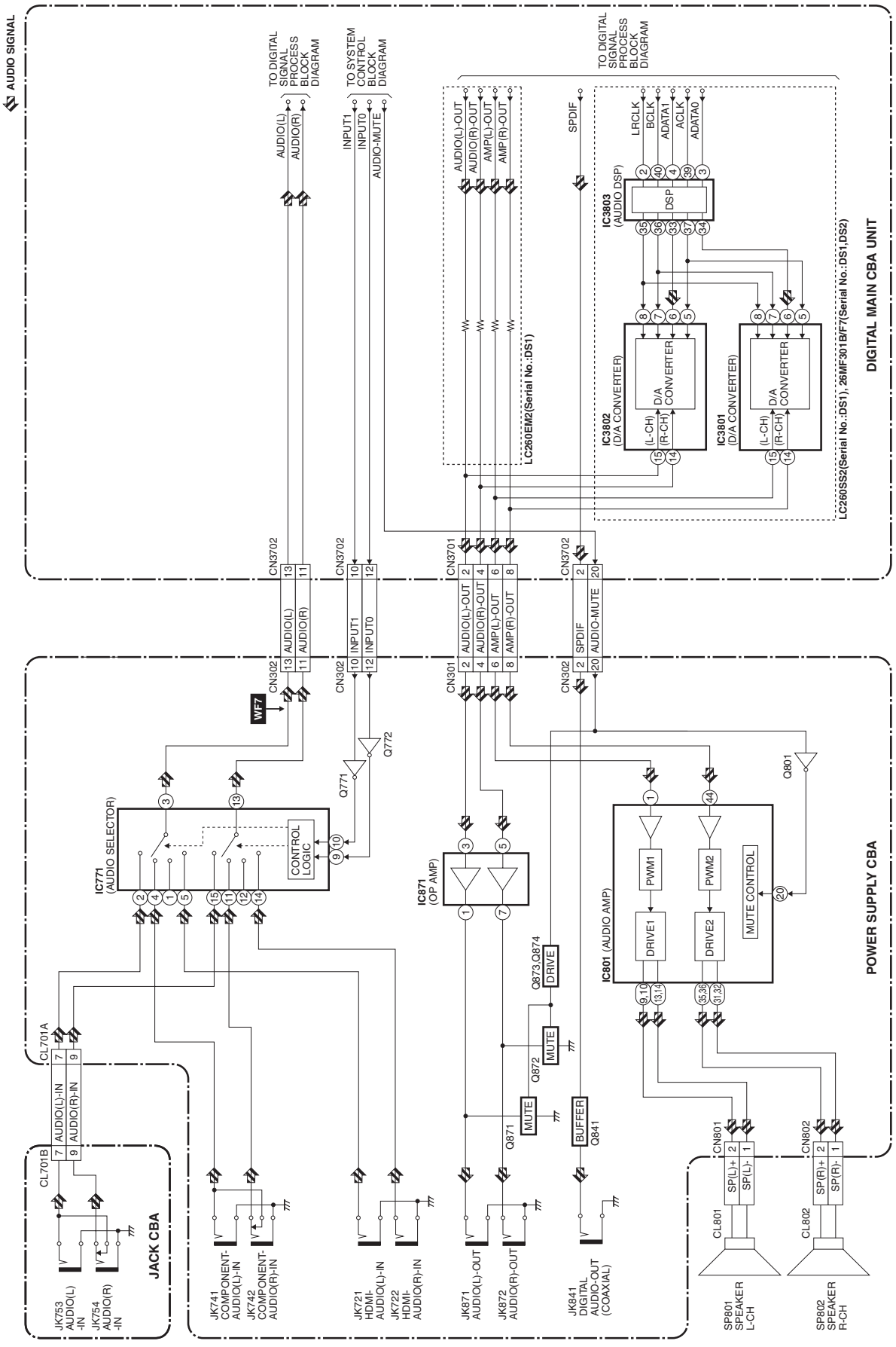
1. System Control Block Diagram



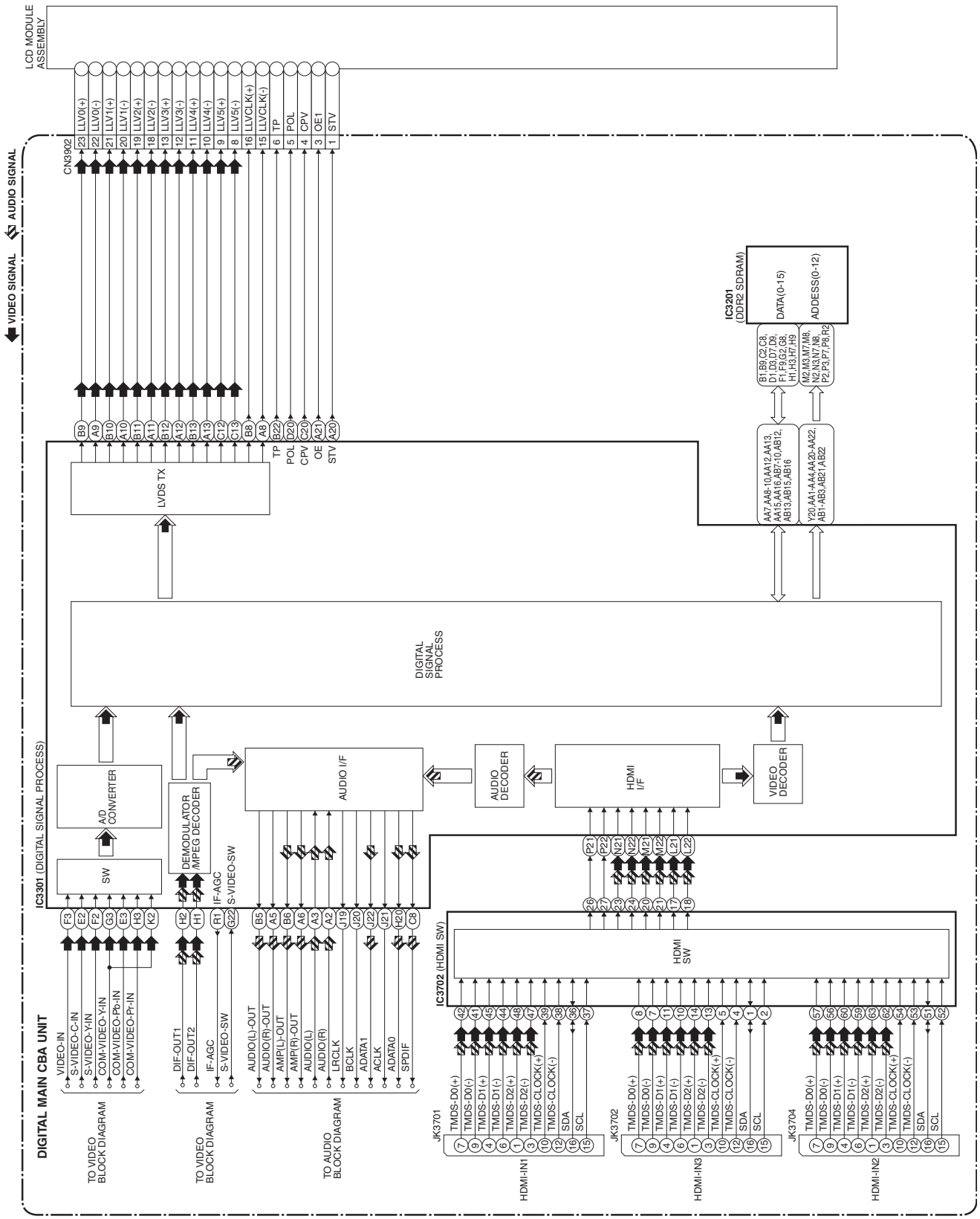
2. Video Block Diagram



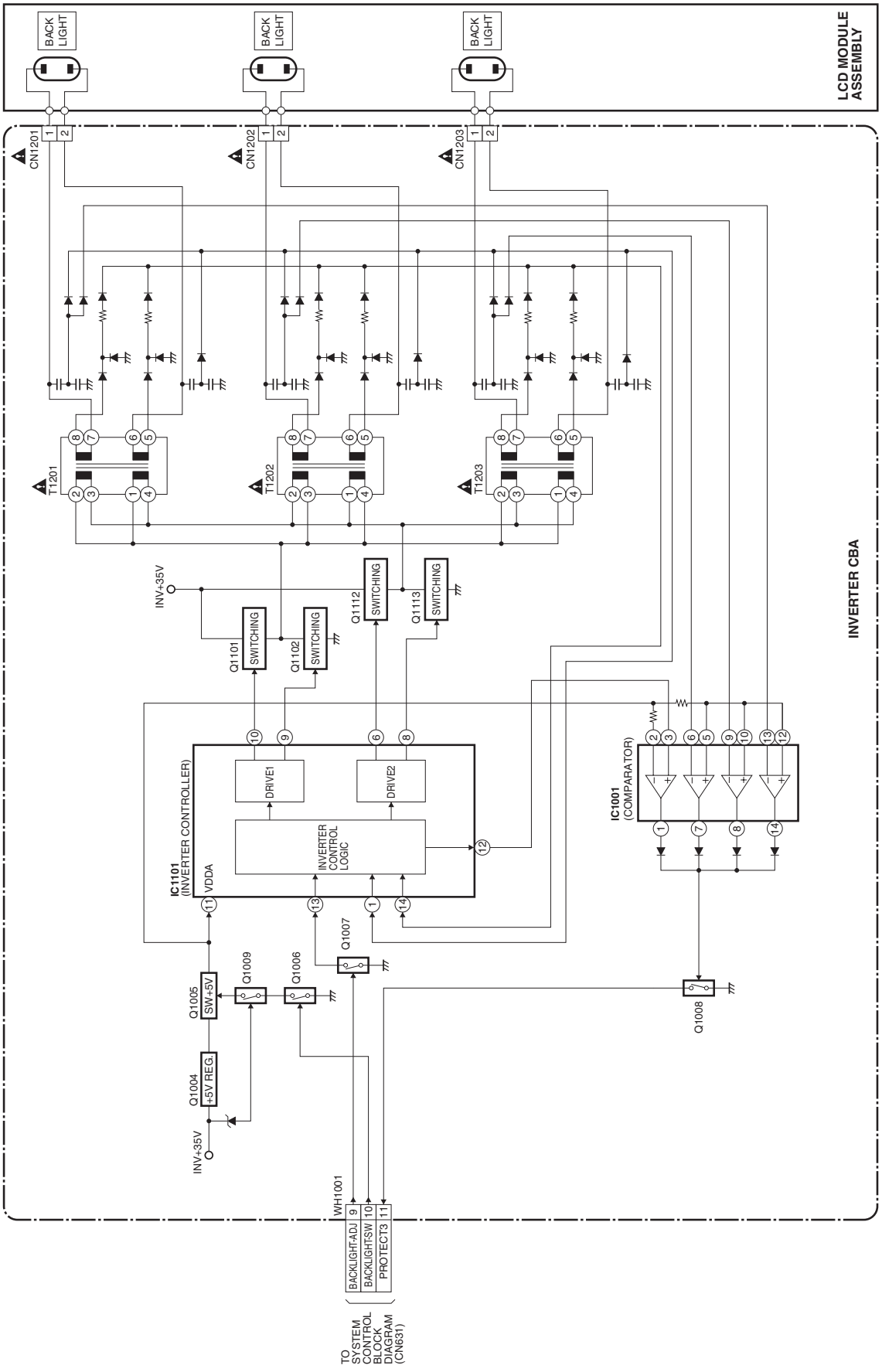
3. Audio Block Diagram



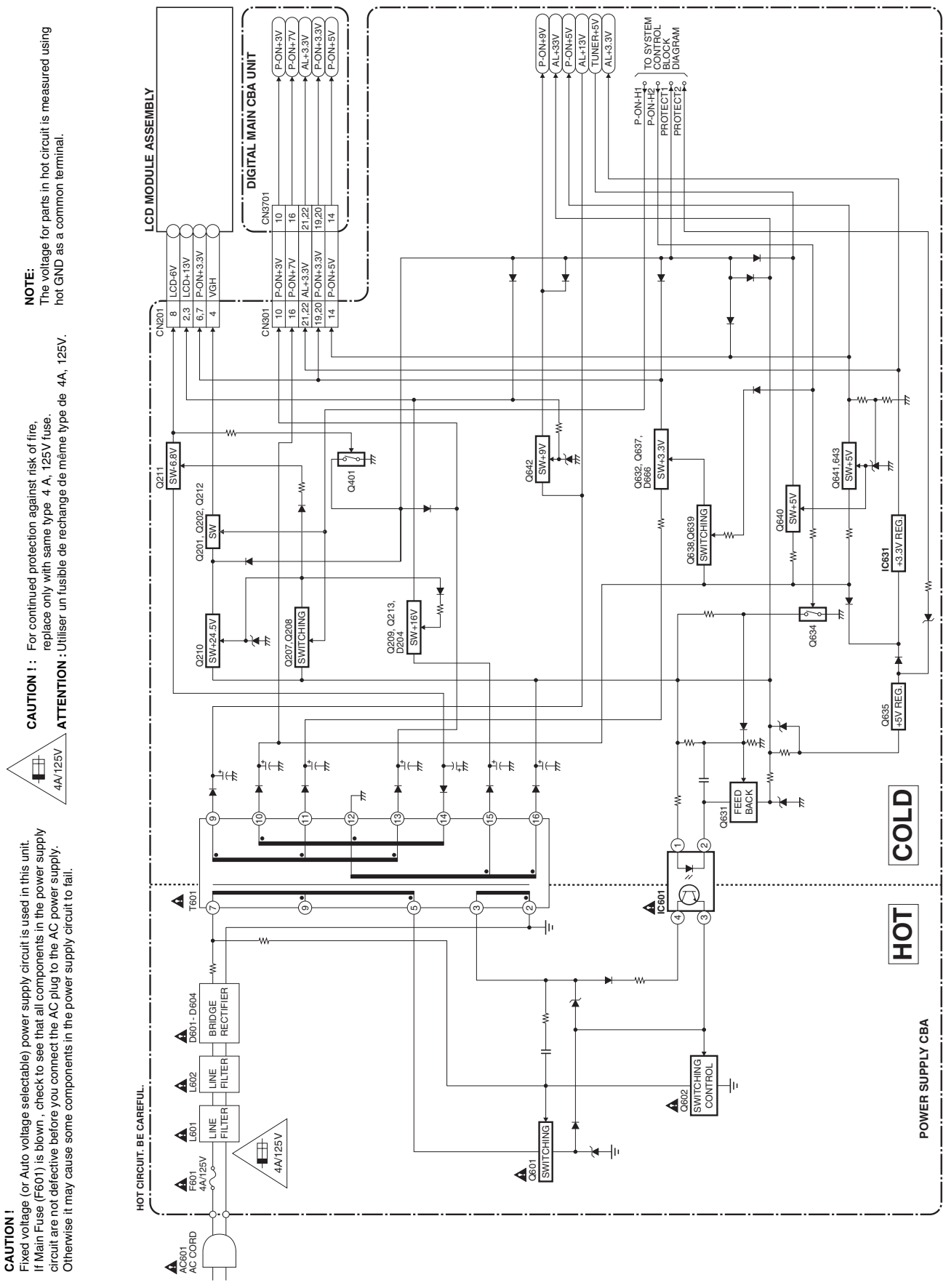
4. Digital Signal Process Block Diagram



5. Inverter Block Diagram



6. Power Supply Block Diagram



CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

4A/125V

CAUTION ! : For continued protection against risk of fire, replace only with same type 4 A, 125V fuse.
ATTENTION : Utiliser un fusible de rechange de même type de 4A, 125V.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

SCHEMATIC DIAGRAMS / CBA AND TEST POINTS

Standard Notes

WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark "⚠" in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ($K = 10^3$, $M = 10^6$).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in μF ($P = 10^{-6}$ μF).
5. All voltages are DC voltages unless otherwise specified.
6. This schematic diagrams are masterized version that should cover the entire FL11.3 chassis models. Thus some parts in detail illustrated on this schematic diagrams may vary depend on the model within the FL11.3 chassis.
   Please refer to the parts lists for each models.
7. The Circuit Board layout illustrated on this service manual is the latest version for this chassis at the moment of making this service manual.
   Depend on the mass production date of each model, the actual layout of each Board may differ slightly from this version.

LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. CAUTION:

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE_A,_V FUSE.

ATTENTION: UTILISER UN FUSIBLE DE RECHANGE DE MÊME TYPE DE_A,_V.

2. CAUTION:

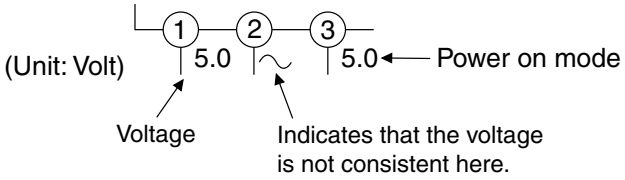
Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. Note:

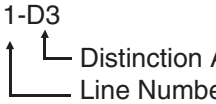
1. Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
2. To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Voltage indications on the schematics are as shown below:

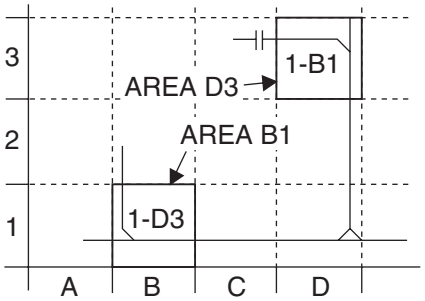
Plug the TV power cord into a standard AC outlet.:



5. How to read converged lines



Examples:
1. "1-D3" means that line number "1" goes to the line number "1" of the area "D3".
2. "1-B1" means that line number "1" goes to the line number "1" of the area "B1".



6. Test Point Information

: Indicates a test point with a jumper wire across a hole in the PCB.

: Used to indicate a test point with a component lead on foil side.

: Used to indicate a test point with no test pin.

: Used to indicate a test point with a test pin.

The reference number of parts on Schematic Diagrams/CBA can be retrieved by application search function.

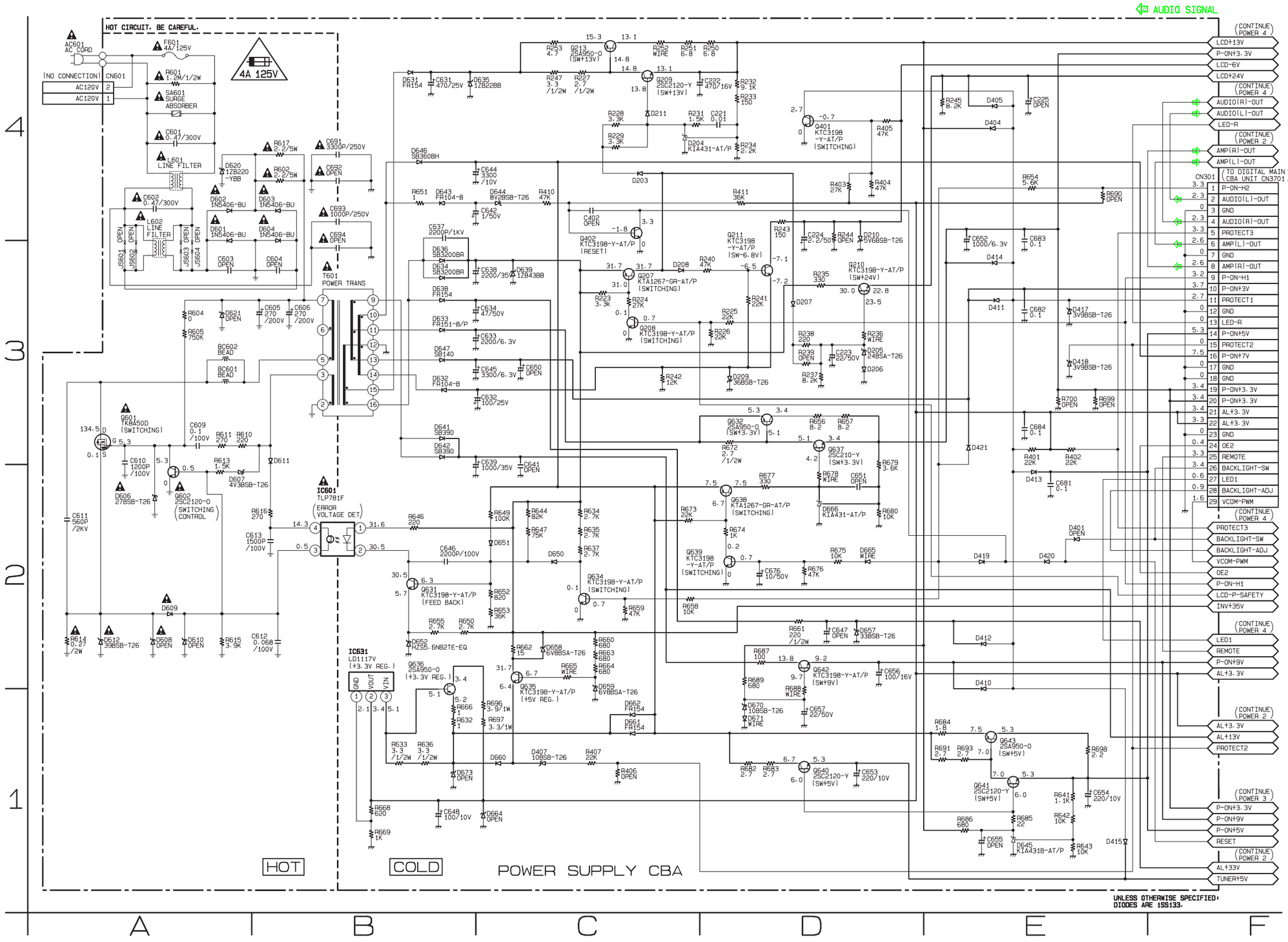
Power Supply 1 Schematic Diagram

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

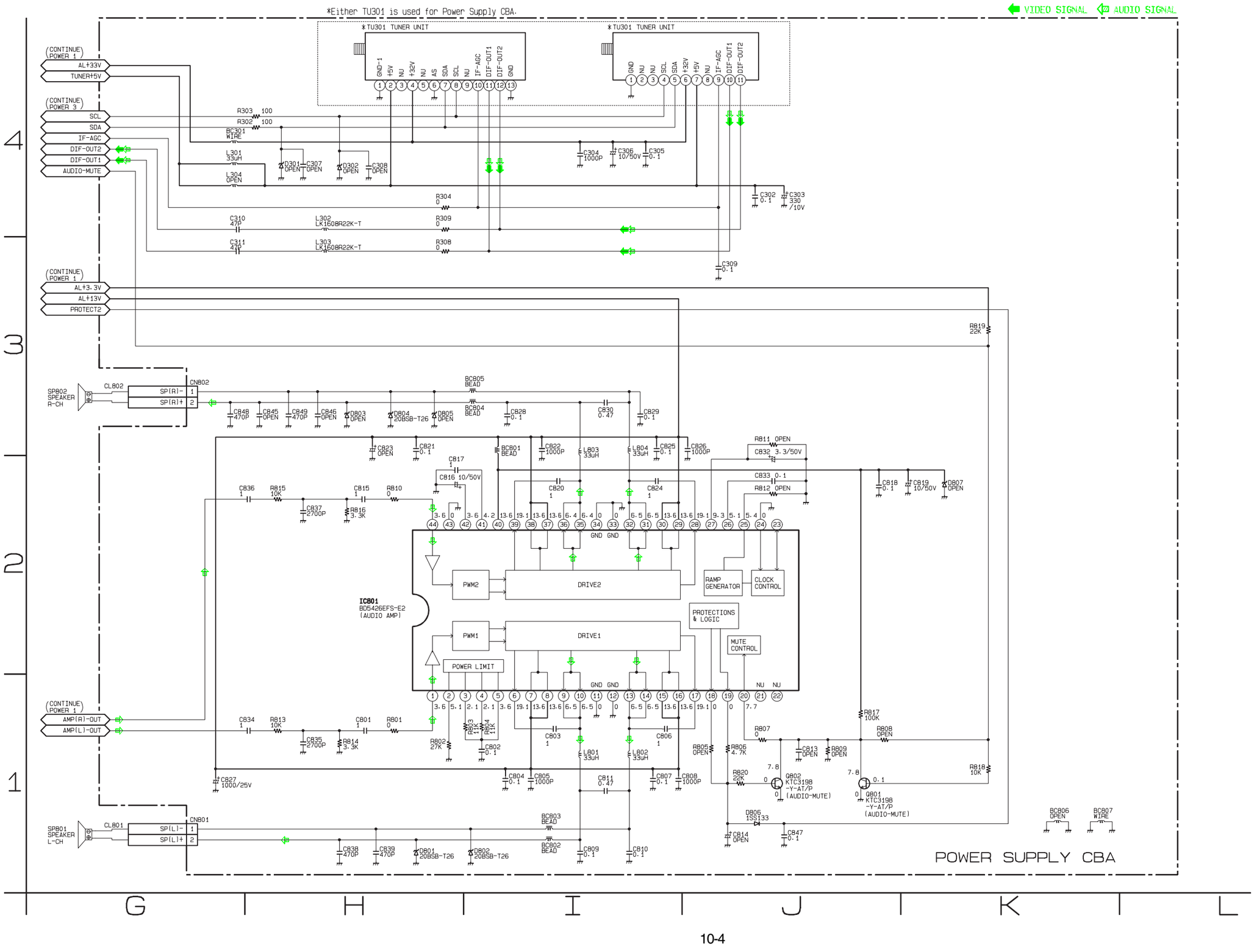
4A/125V

CAUTION ! : For continued protection against risk of fire, replace only with same type 4 A, 125V fuse.
ATTENTION : Utiliser un fusible de rechange de même type de 4A, 125V.

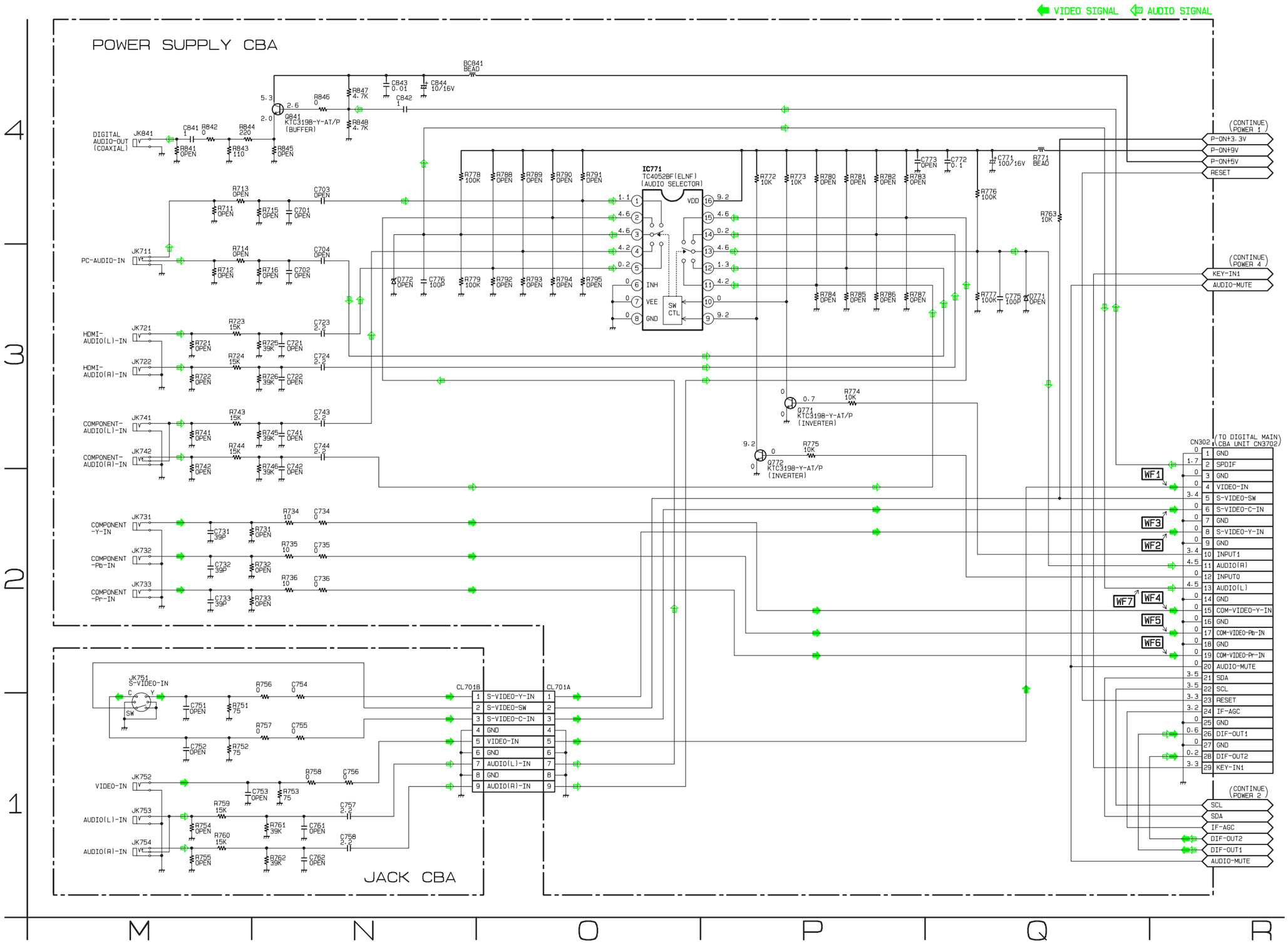
NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.



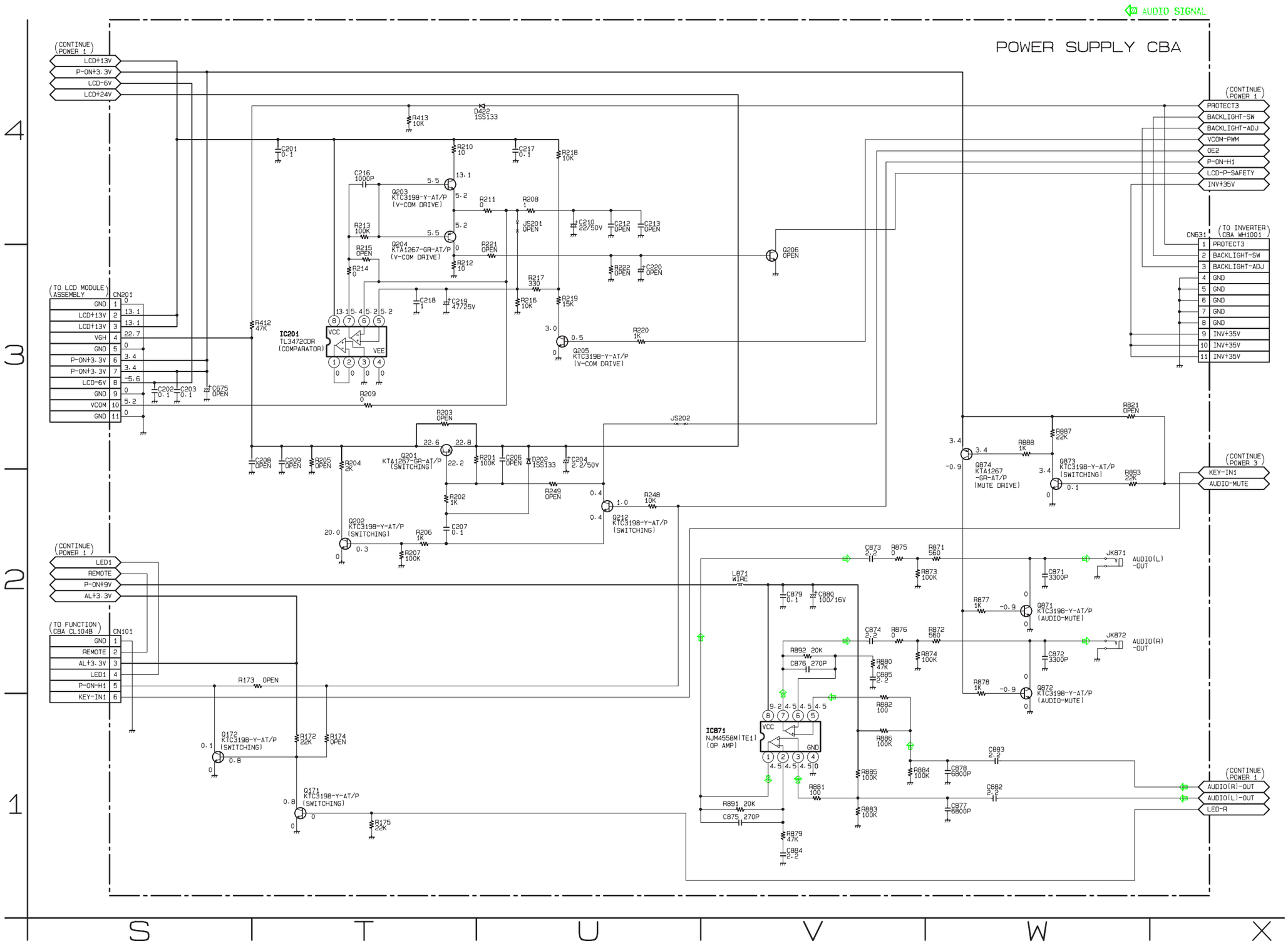
Power Supply 2 Schematic Diagram



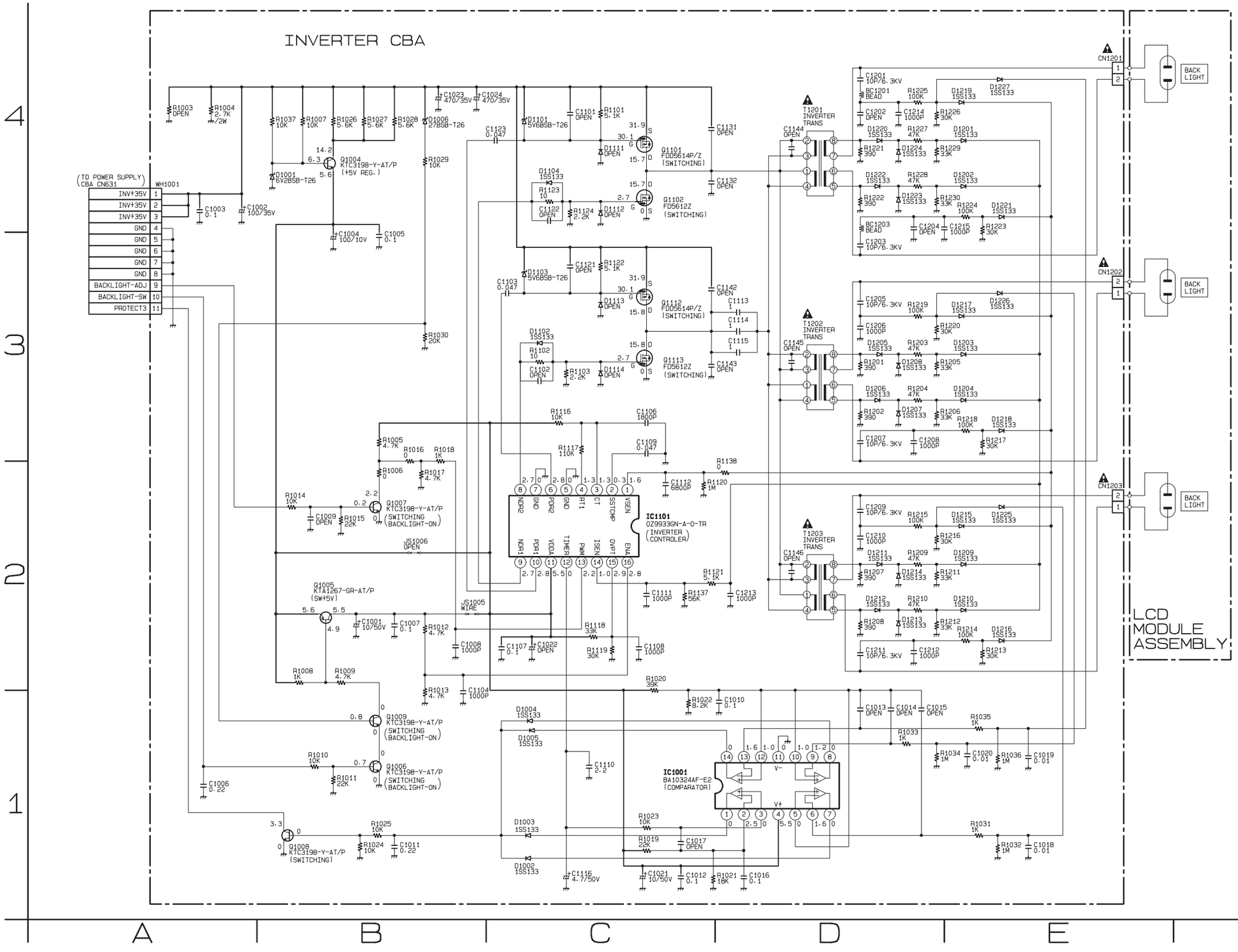
Power Supply 3 & Jack Schematic Diagram



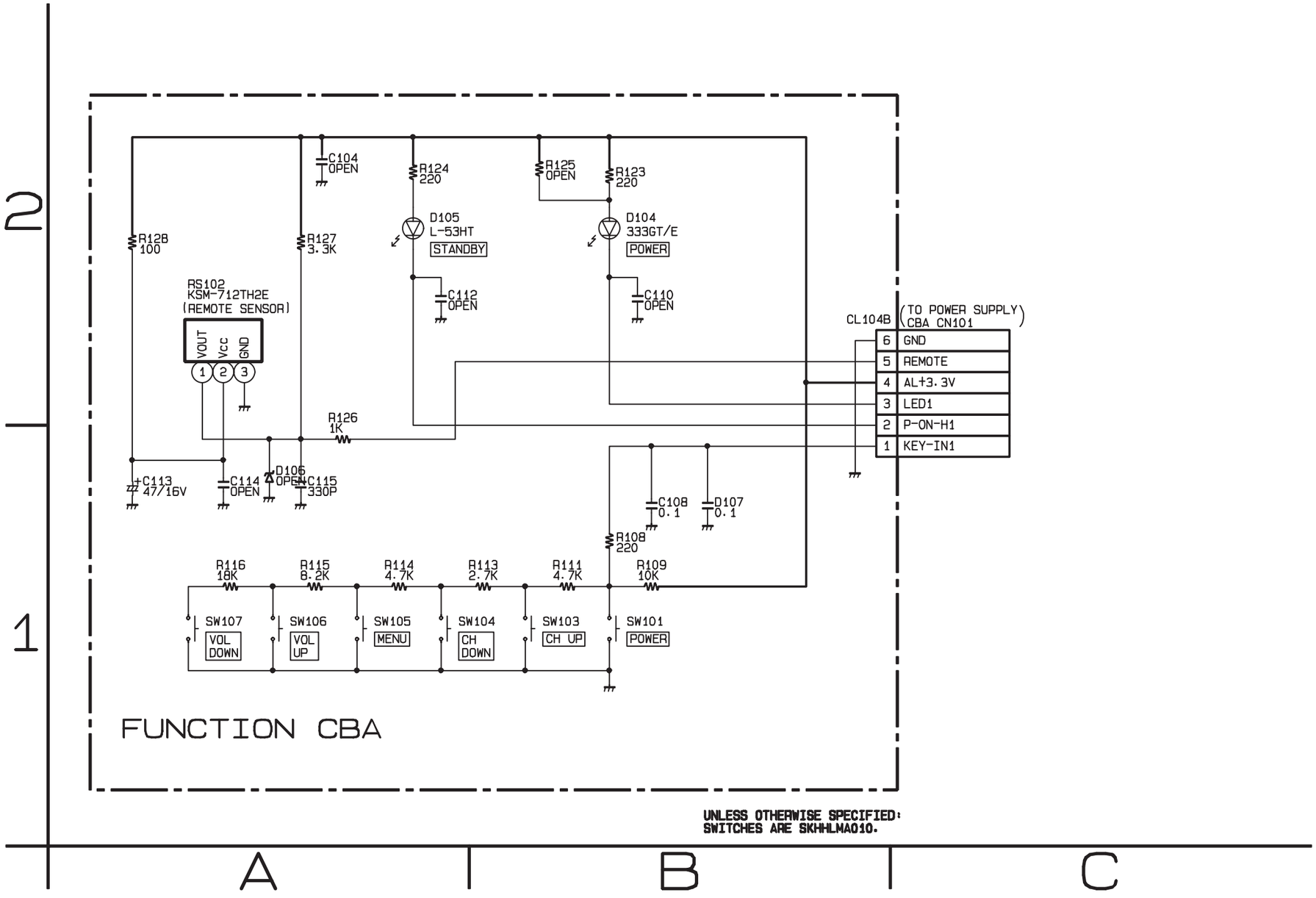
Power Supply 4 Schematic Diagram



Inverter Schematic Diagram

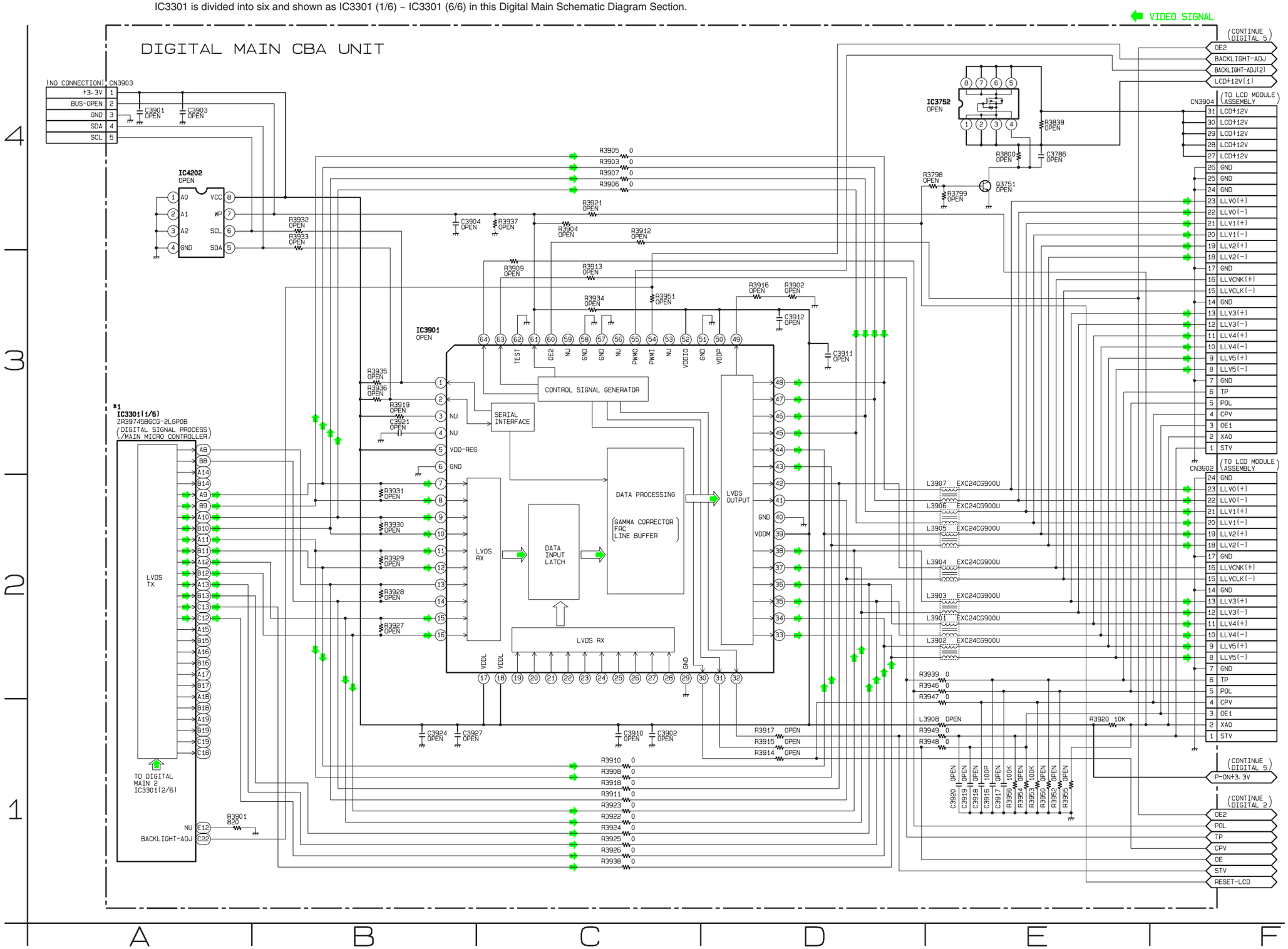


Function Schematic Diagram



Digital Main 1 Schematic Diagram

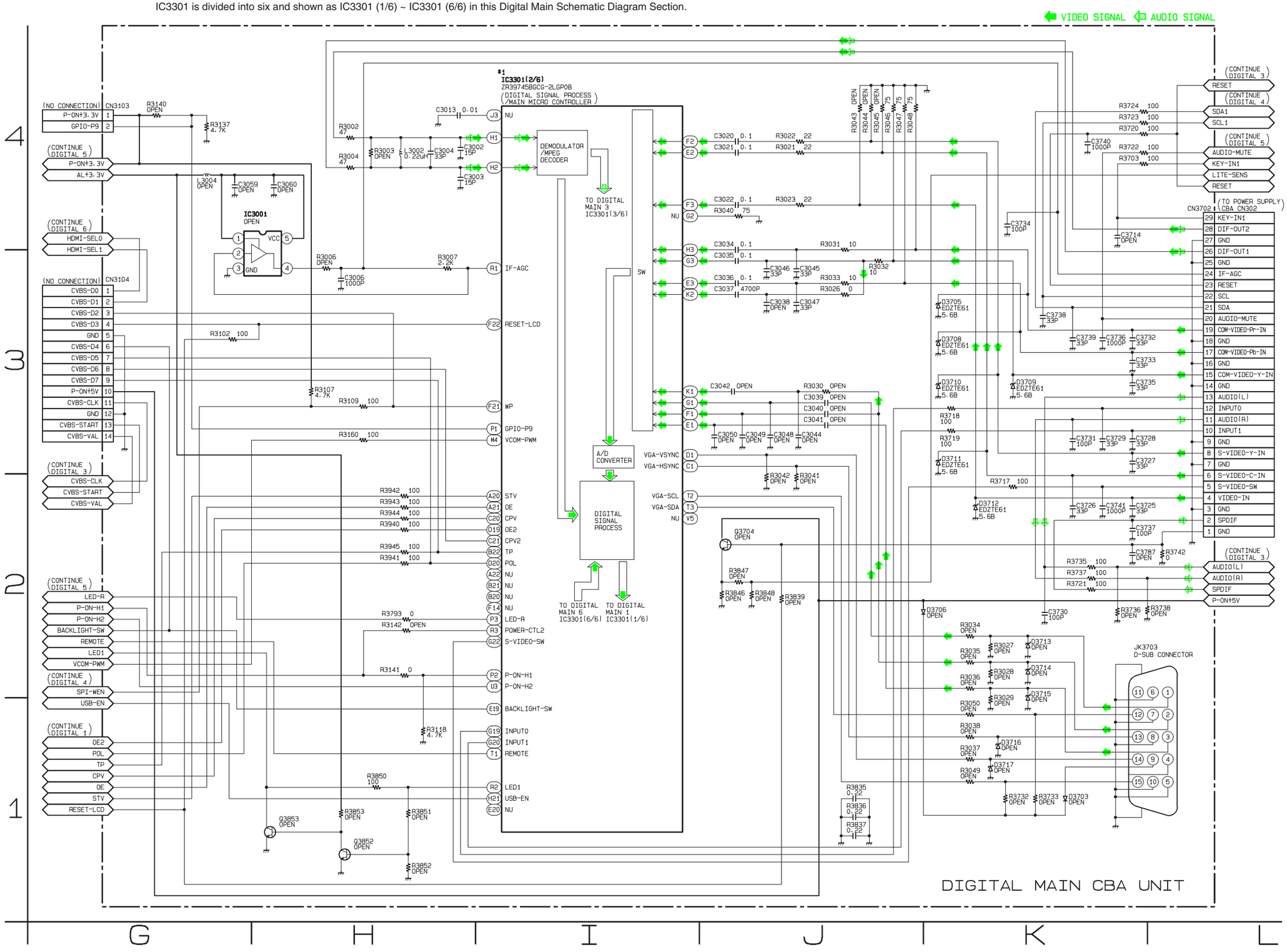
＊1 NOTE:
The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/6) ~ IC3301 (6/6) in this Digital Main Schematic Diagram Section.



FL11.3SCD1

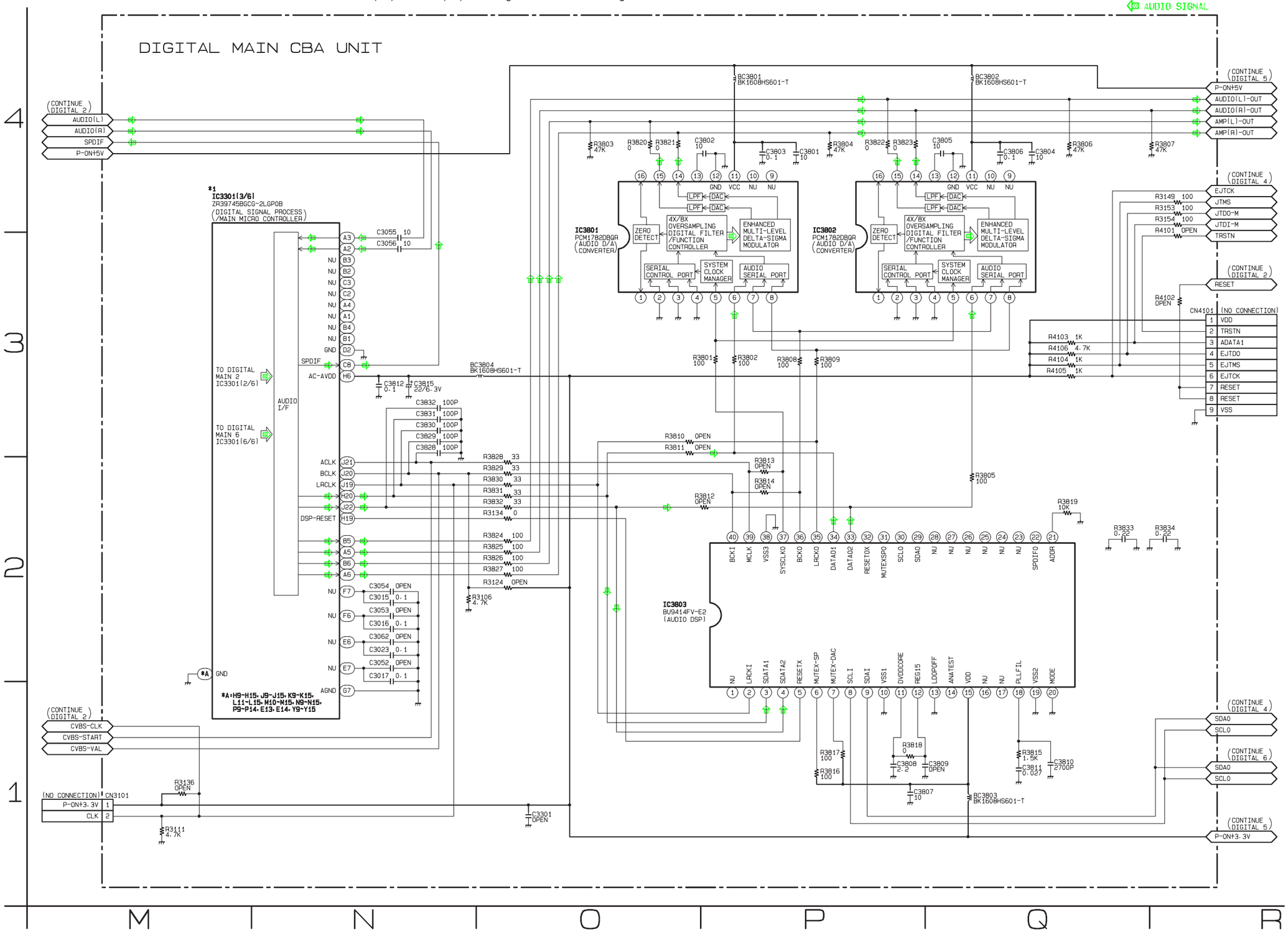
Digital Main 2 Schematic Diagram

＊1 NOTE:
The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/6) ~ IC3301 (6/6) in this Digital Main Schematic Diagram Section.



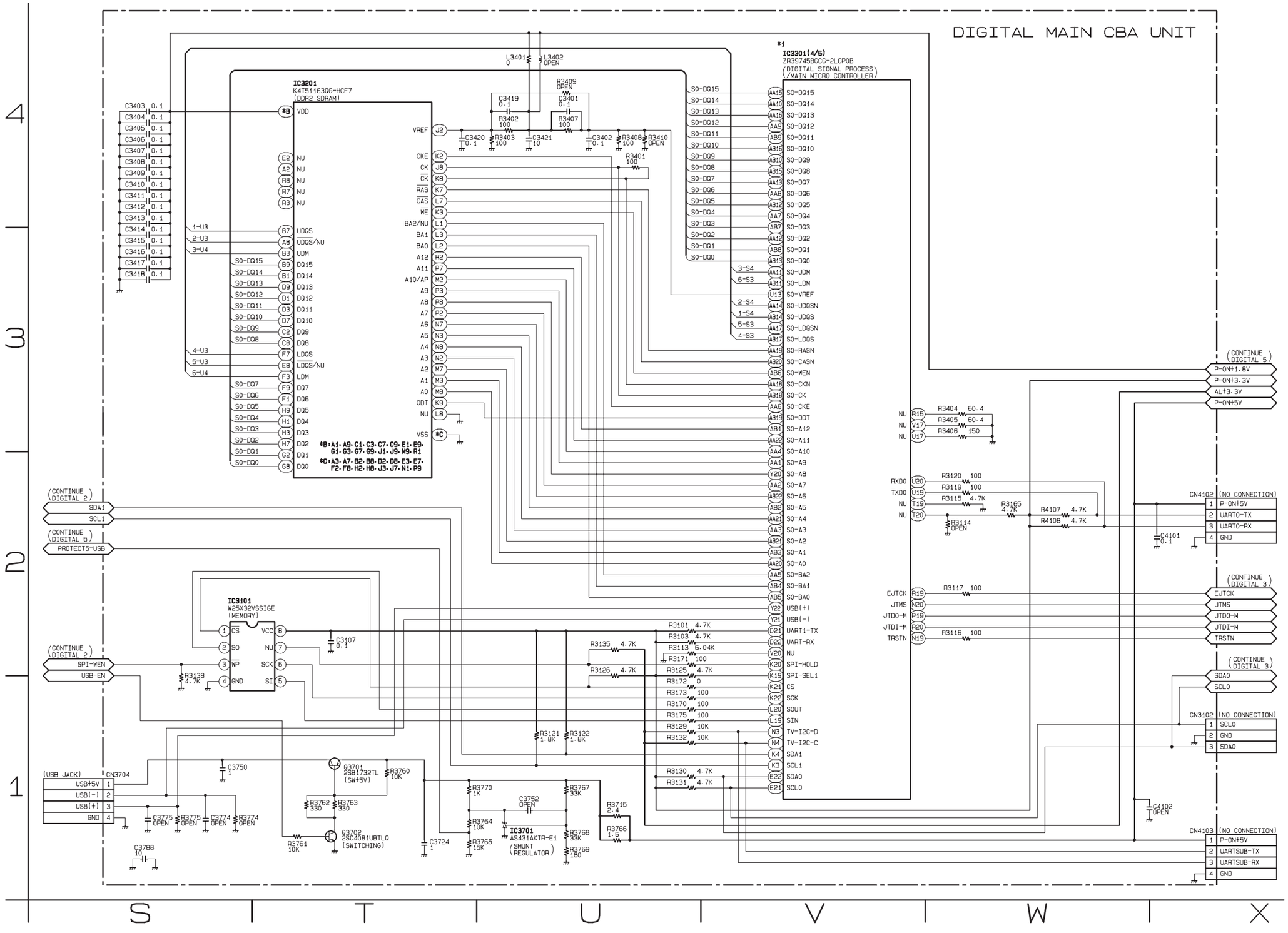
Digital Main 3 Schematic Diagram

*1 **NOTE:**
The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/6) ~ IC3301 (6/6) in this Digital Main Schematic Diagram Section.



Digital Main 4 Schematic Diagram

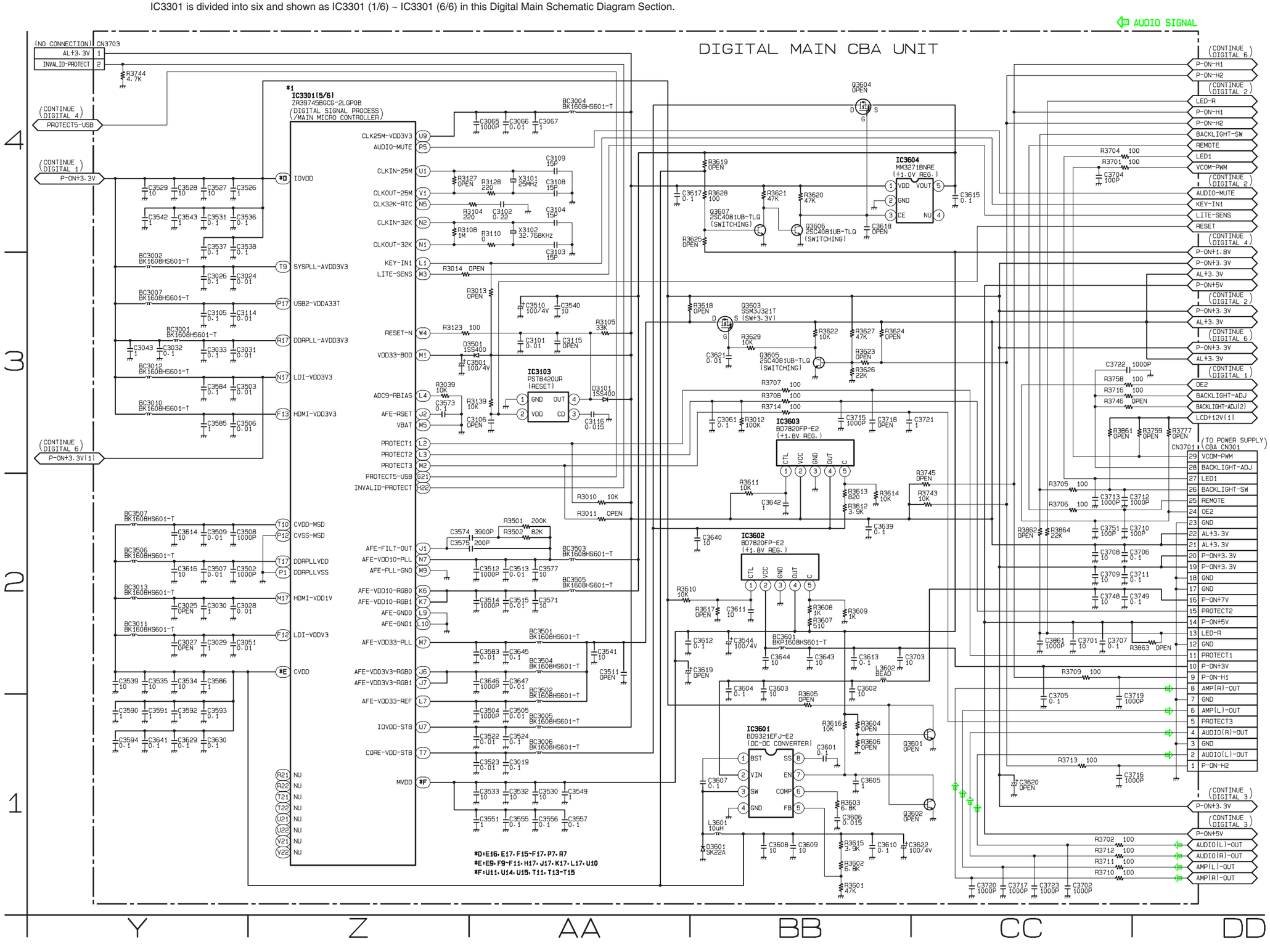
＊1 NOTE:
The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/6) ~ IC3301 (6/6) in this Digital Main Schematic Diagram Section.



FL11.3SCD4

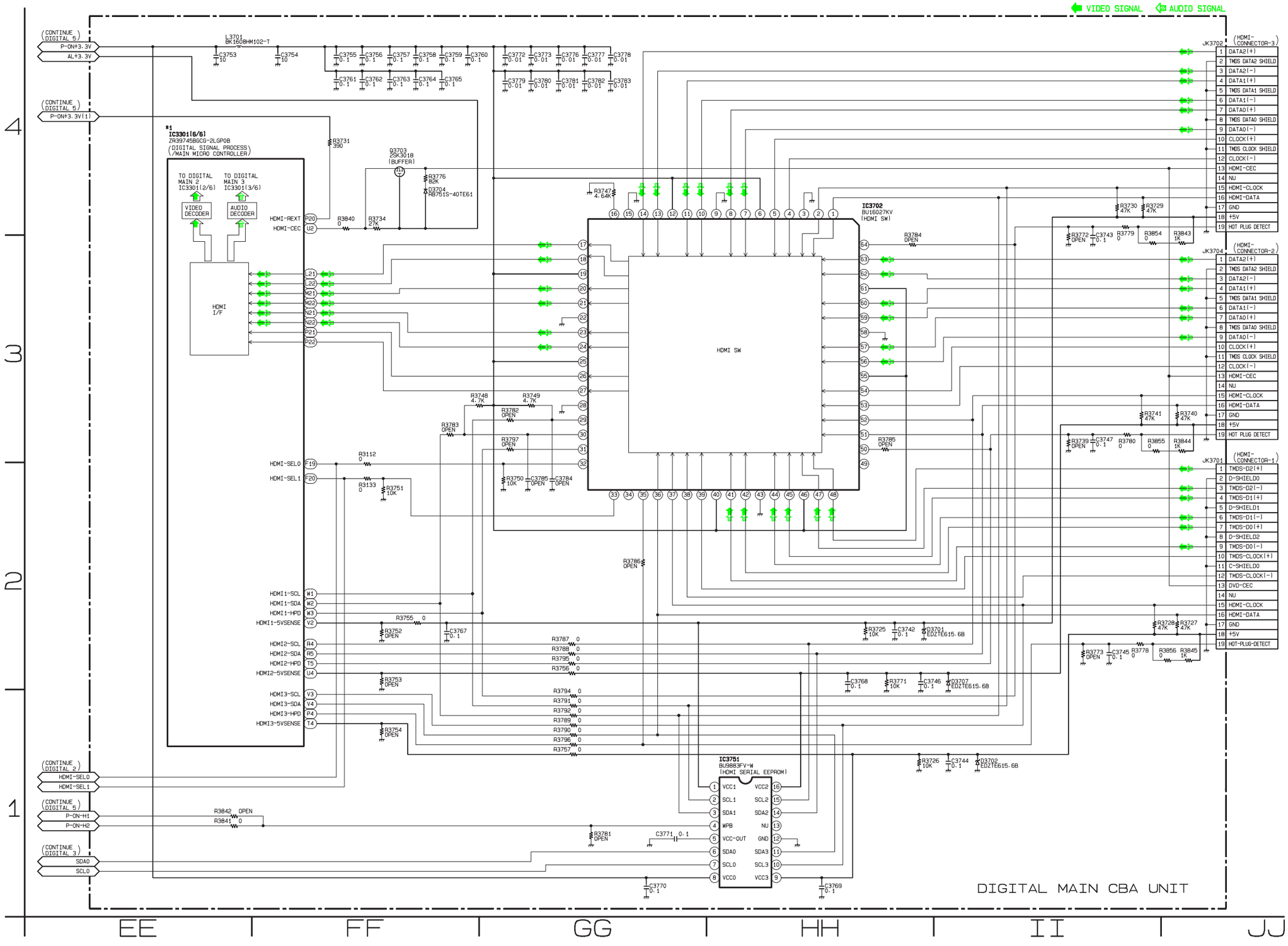
Digital Main 5 Schematic Diagram

∗1 **NOTE:**
The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/6) ~ IC3301 (6/6) in this Digital Main Schematic Diagram Section.



Digital Main 6 Schematic Diagram

∗1 **NOTE:**
The order of pins shown in this diagram is different from that of actual IC3301.
IC3301 is divided into six and shown as IC3301 (1/6) ~ IC3301 (6/6) in this Digital Main Schematic Diagram Section.



FL11.3SCD6

Power Supply CBA & Jack CBA Top View

Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used when repairing. Also, in order to have the ability to increase the input slowly, when troubleshooting this type of power supply circuit, a variable isolation transformer is required.

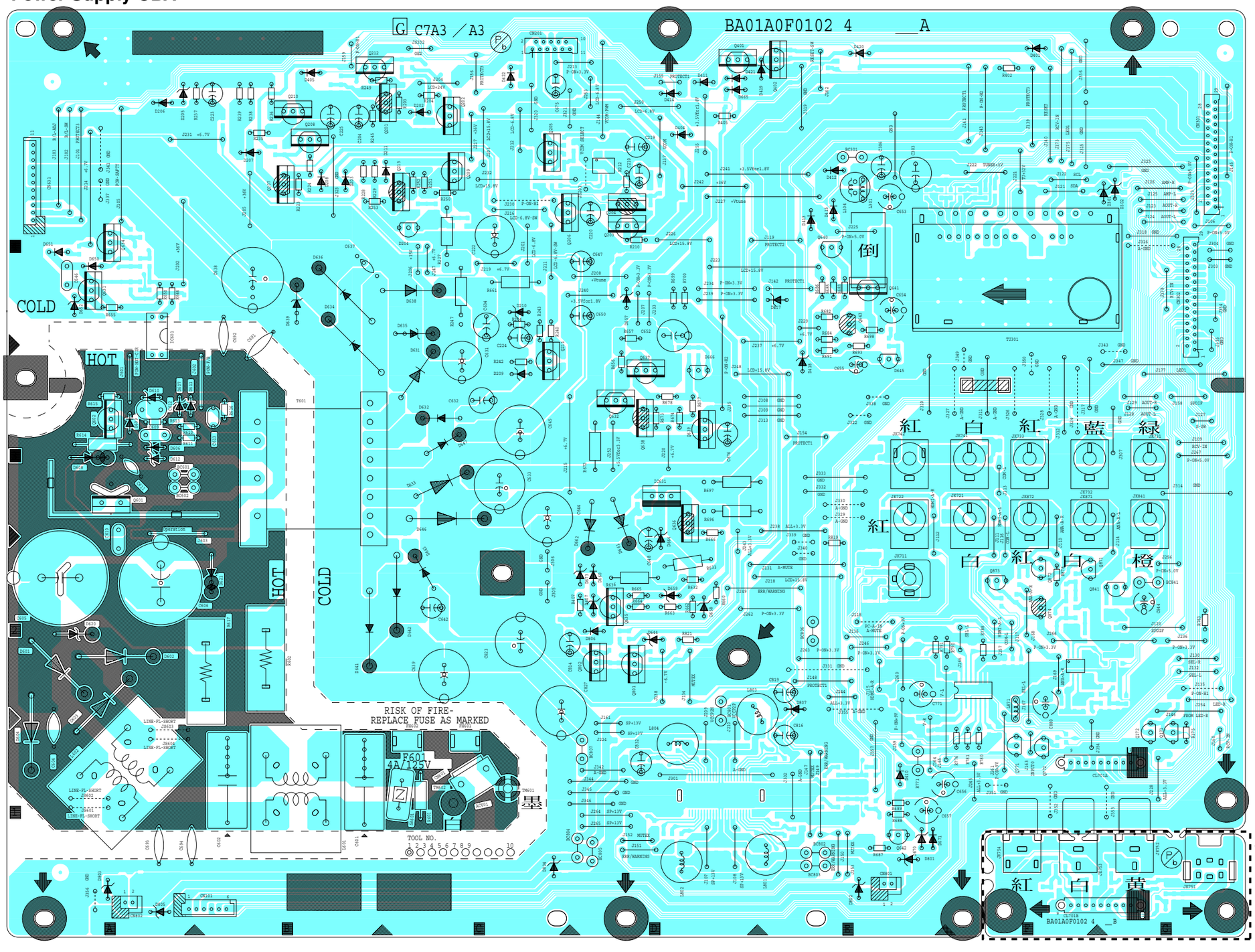
CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

4A/125V

CAUTION ! : For continued protection against risk of fire, replace only with same type 4 A, 125V fuse.
ATTENTION : Utiliser un fusible de rechange de même type de 4A, 125V.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

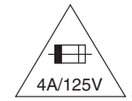
Power Supply CBA



Power Supply CBA & Jack CBA Bottom View

Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used when repairing. Also, in order to have the ability to increase the input slowly, when troubleshooting this type of power supply circuit, a variable isolation transformer is required.

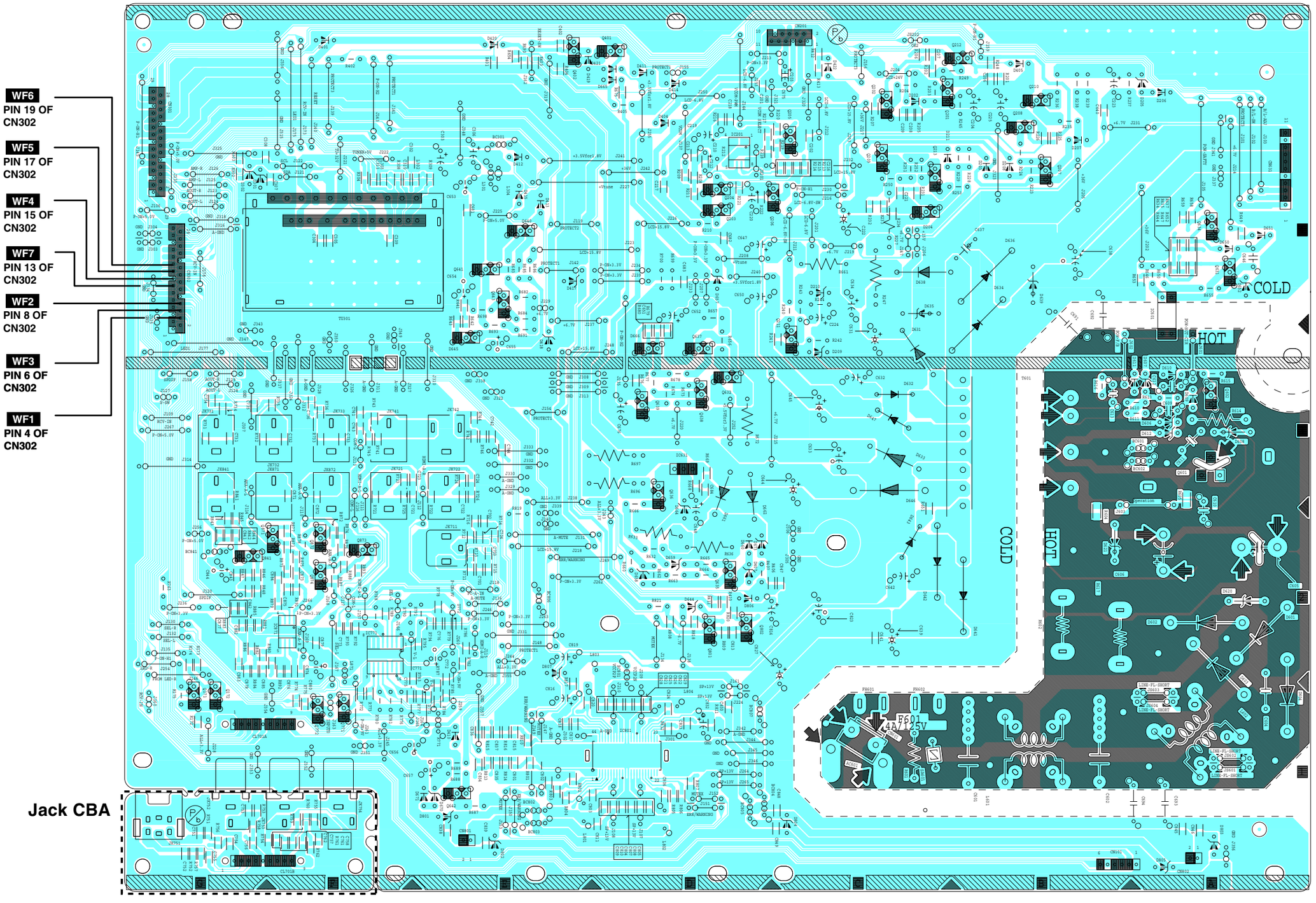
CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F601) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.



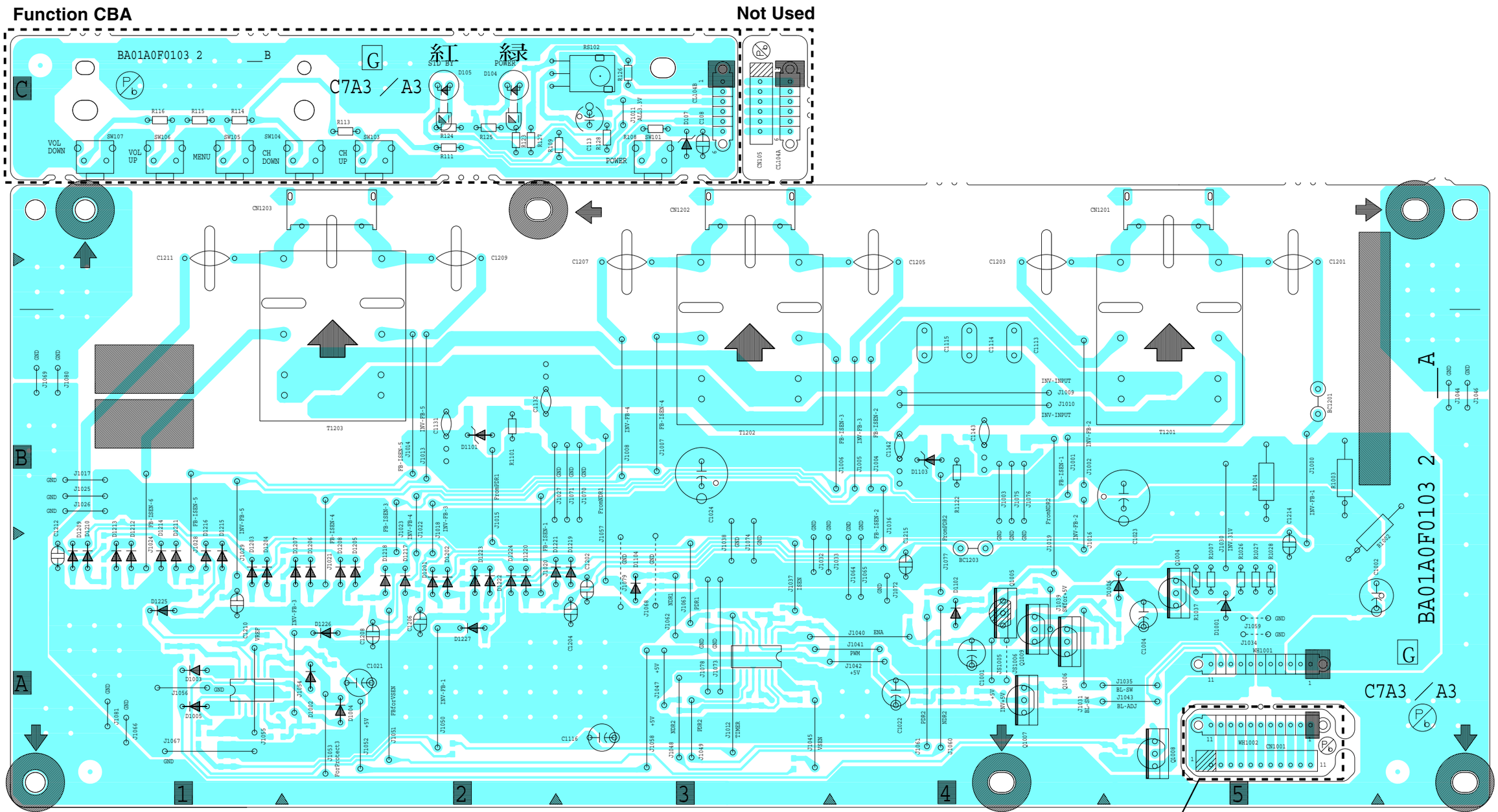
CAUTION ! : For continued protection against risk of fire, replace only with same type 4 A, 125V fuse.
ATTENTION : Utiliser un fusible de rechange de même type de 4A, 125V.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

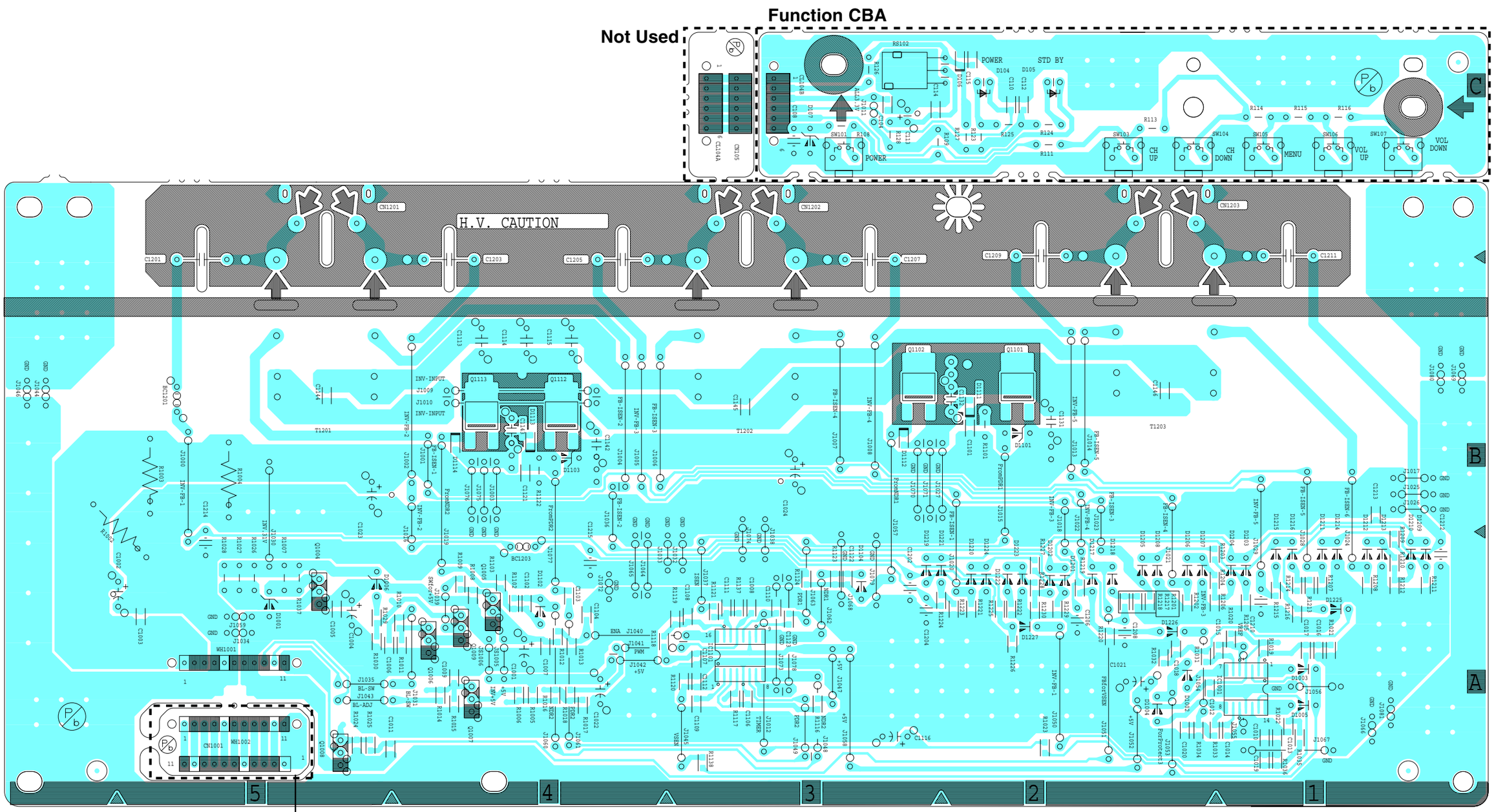
Power Supply CBA



Inverter CBA & Function CBA Top View



Inverter CBA & Function CBA Bottom View

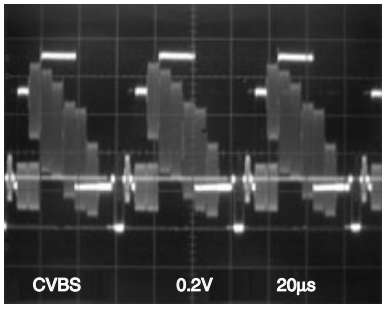


WAVEFORMS

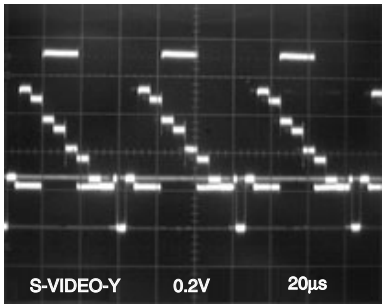
WF1 ~ WF7 = Waveforms to be observed at Waveform check points. (Shown in Schematic Diagram.)

Input: NTSC Color Bar Signal (with 1kHz Audio Signal)

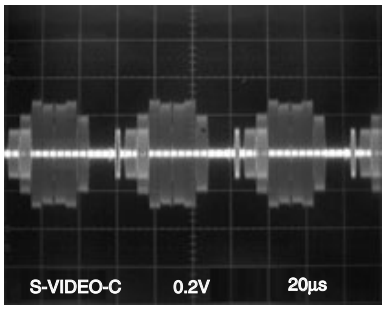
WF1 Pin 4 of CN302



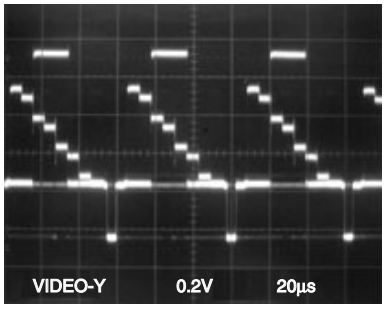
WF2 Pin 8 of CN302



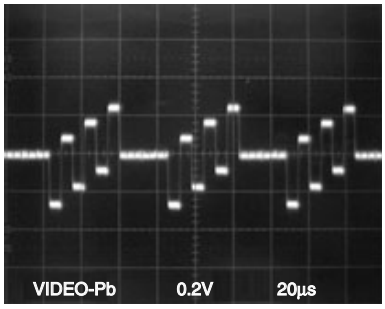
WF3 Pin 6 of CN302



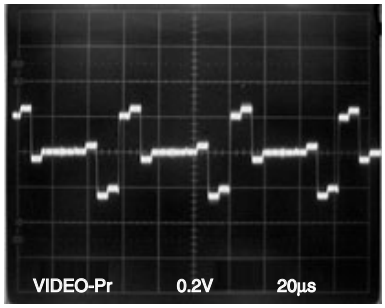
WF4 Pin 15 of CN302



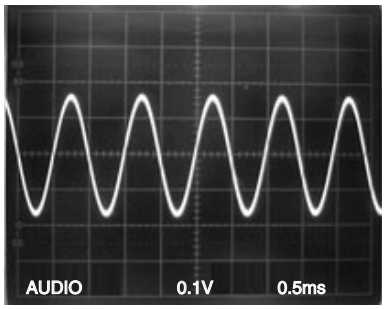
WF5 Pin 17 of CN302



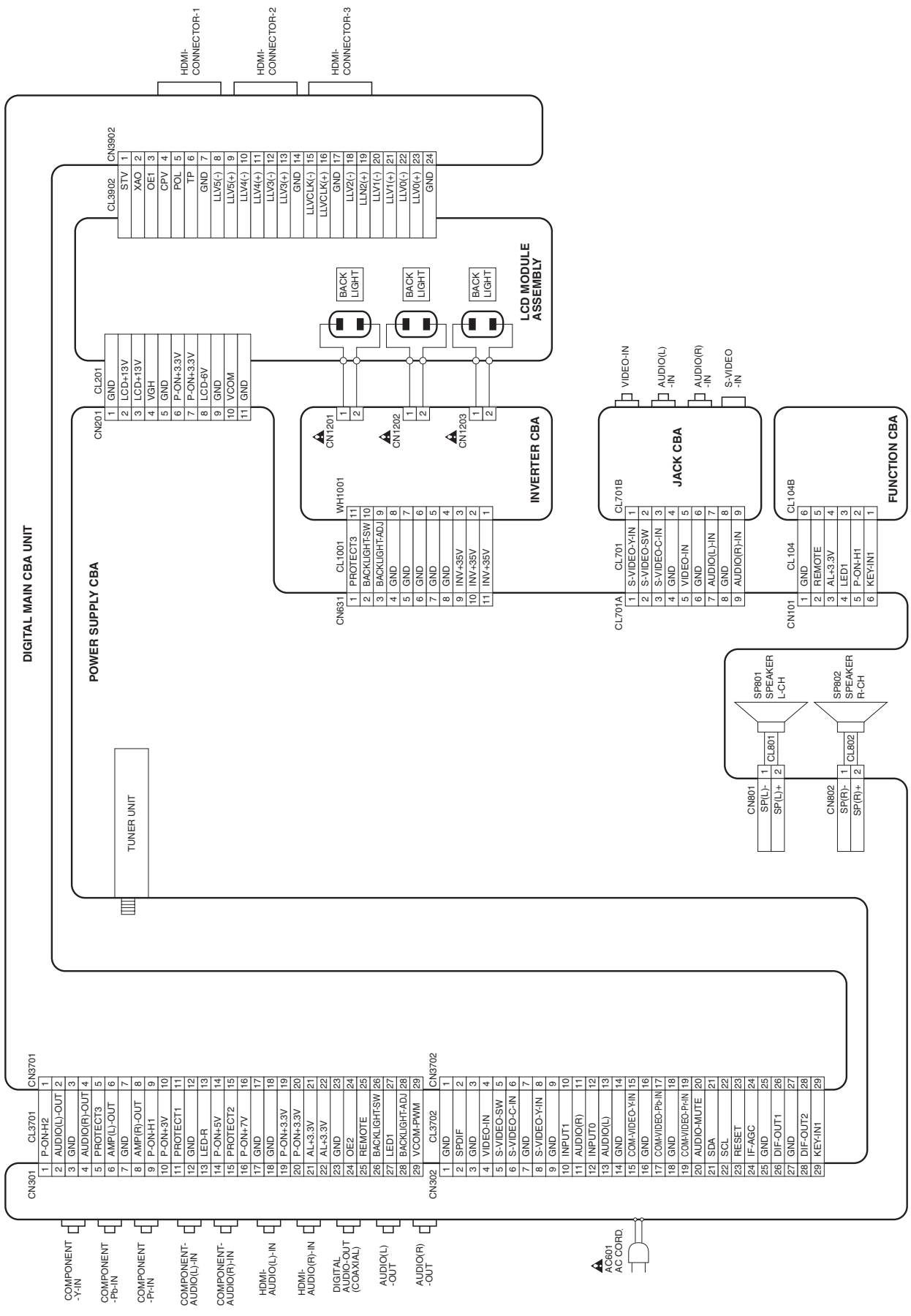
WF6 Pin 19 of CN302



WF7 Pin 13 of CN302

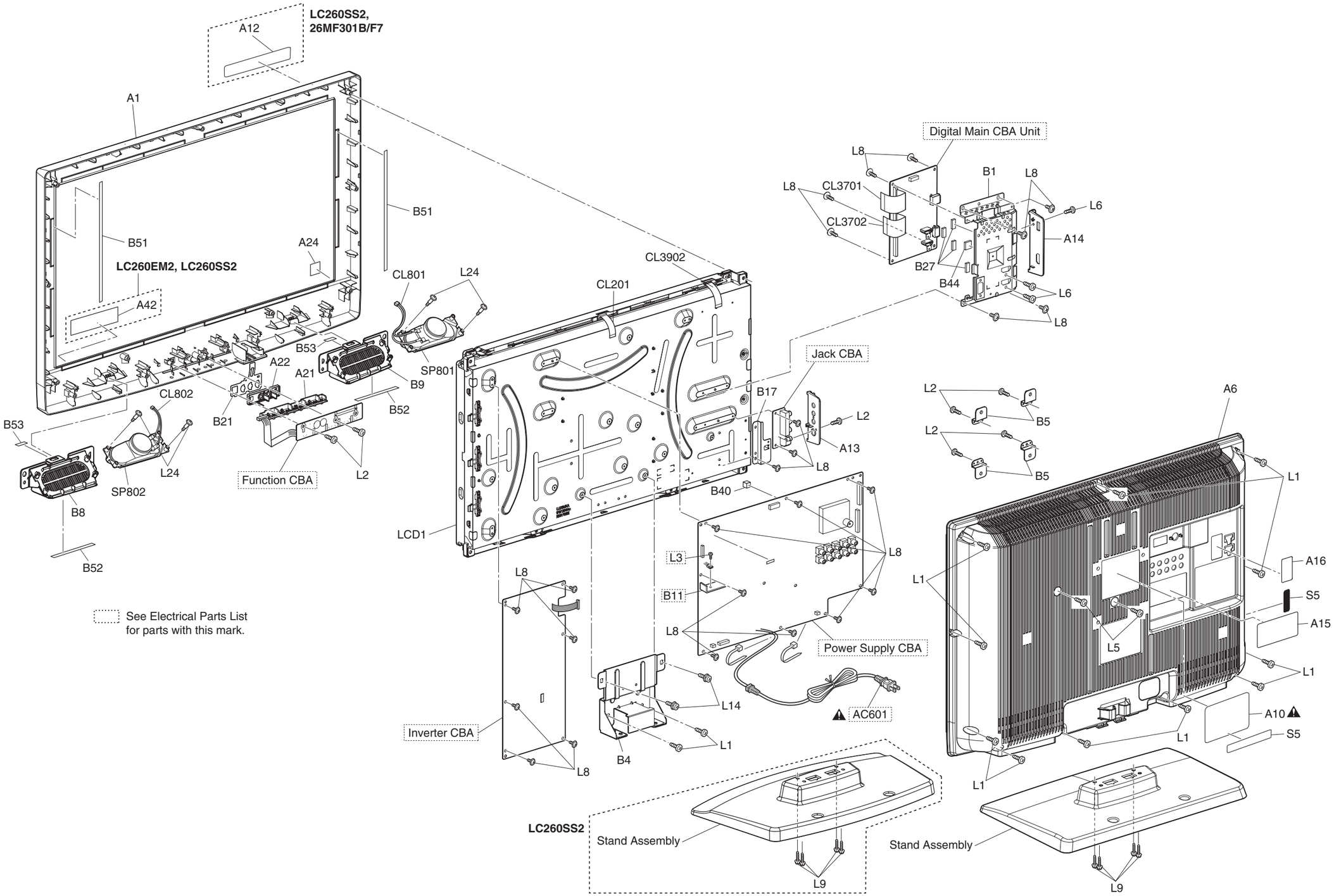


WIRING DIAGRAM



EXPLODED VIEWS

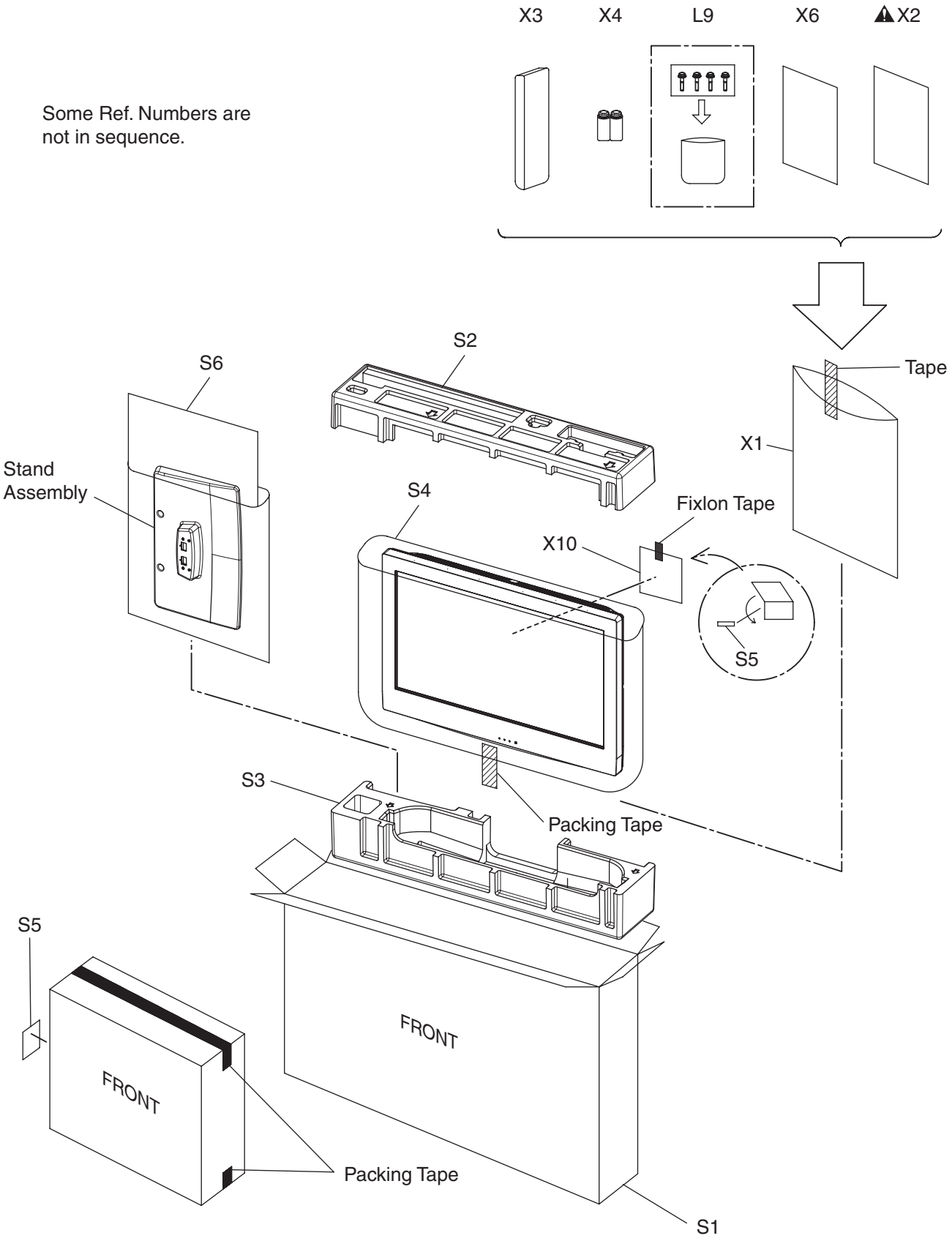
Cabinet



See Electrical Parts List for parts with this mark.

Packing

Some Ref. Numbers are not in sequence.



PARTS LIST [LC260EM2 (Serial No.: DS1)]

Mechanical Parts

PRODUCT SAFETY NOTE: Products marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTE: Parts that are not assigned part numbers (---------) are not available.

Ref. No.	Description	Part No.
	STAND ASSEMBLY A01F0UH	1ESA26286
A1	FRONT CABINET A17A1UH	1EM027545
A6	REAR CABINET A01A1UH	1EM024945A
A10⚠	RATING LABEL A17A1UH	---------
A13	JACK HOLDER(A) A01A1UH	1EM223864
A14	JACK HOLDER(D) A94N0UH	1EM222784
A15	JACK LABEL(A) A01A1UH	1EM431777
A16	JACK LABEL(B) A01A1UH	1EM431778
A21	FUNCTION KNOB A17A1UH	1EM330558
A22	SENSOR LED LENS A17A1UH	1EM330537
A24	ENERGY STAR LABEL A91F2UH	---------
A42	ENERGY GUIDE LABEL A17A1UH	---------
B1	SHIELD BOX A01F2UH	1EM224323
B4	STAND HOLDER 26W A01A1UH	1EM223865A
B5	WALL MOUNT BRACKET A84N0UH	1EM323797
B8	SPEAKER HOLDER (L) A94F0UH	1EM123233
B9	SPEAKER HOLDER (R) A94F0UH	1EM123234
B17	PCB HOLDER A01A1UH	1EM328117
B21	SHIELD PLATE A17A1UH	1EM330178
B27	GASKET A8AF0UH	1EM425861
B40	RUBBER CUSHION A72N0JH	1EM425197
B44	THERMAL SHEET TMS-L-3 20X20HC	XK10000X4009
B51	CLOTH(10X190XT0.3) L0200UA	1EM420019
B52	CLOTH(10X90XT1.0) A7120UH	1EM424258
B53	CLOTH(15X30XT1.0) B7507UH	0EM402452
CL201	WIRE ASSEMBLY 11PIN FFC 11PIN 90MM	WX1A9170-107
CL801	WIRE ASSEMBLY 2PIN 2PIN 155MM RED BLACK	WX1A01A0-201
CL802	WIRE ASSEMBLY 2PIN 2PIN 155MM RED BLACK	WX1A01A0-201
CL3701	WIRE ASSEMBLY 29PIN FFC 29PIN 50MM	WX1A94F0-101
CL3702	WIRE ASSEMBLY 29PIN FFC 29PIN 70MM	WX1A94F0-111
CL3902	WIRE ASSEMBLY 24PIN FFC 24PIN 80MM	WX1A94F0-106
L1	SCREW P-TIGHT M4X14 BIND HEAD+BLK	GBHP4140
L2	SCREW P-TIGHT 3X10 BIND HEAD+	GBHP3100
L5	SCREW TAP TIGHT M3X10 BIND HEAD+BLK NI	GBHS3100
L6	SCREW S-TIGHT M3X8 BIND HEAD+	GBHS3080
L8	ASSEMBLED SCREW (D9 M3X6) A71F0UH	1EM424392B
L9	STAND SCREW KIT A1DA0UH	1ESA28845
L14	SCREW SEMS M4X8 PAN HEAD +	FPJ34080
L24	SHOULDER SCREW A01Q0UF	1EM328277
LCD1	LCD MODULE CMO 6BIT NORMALGRADE	UJ26MXB
SP801	SPEAKER MAGNETIC SO412F24	DS08120XQ003
SP802	SPEAKER MAGNETIC SO412F24	DS08120XQ003

Ref. No.	Description	Part No.
	PACKING	
S1	CARTON A17A1UH	1EM434239
S2	STYROFOAM TOP A17A1UH	1EM027565
S3	STYROFOAM BOTTOM A17A1UH	1EM027566
S4	SET BAG L3207UH	1EM320295
S5	SERIAL NO. LABEL A01PBUH	---------
S6	STAND BAG A94F0UH	1EM428757
	ACCESSORIES	
X1	BAG POLYETHYLENE 235X365XT0.03	0EM408420A
X2⚠	OWNERS MANUAL A17A1UH	1EMN27779
X3	REMOTE CONTROL NH001UD	NH001UD
X4	DRY BATTERY R03/2S	XB0M451T0006
X6	QUICK START GUIDE A17A1UH	1EMN27780
X10	REGISTRATION CARD (EMERSON) A17N1UH	1EMN27763

Electrical Parts

PRODUCT SAFETY NOTE: Products marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTES:

1. Parts that are not assigned part numbers (---------) are not available.
2. Tolerance of Capacitors and Resistors are noted with the following symbols.

C.....±0.25% D.....±0.5% F.....±1%

G.....±2% J.....±5% K.....±10%

M.....±20% N.....±30% Z.....+80/-20%

DIGITAL MAIN CBA UNIT

Ref. No.	Description	Part No.
	DIGITAL MAIN CBA UNIT	A17A1MMA-001

MPW CBA

Ref. No.	Description	Part No.
	MPW CBA Consists of the following:	A17A1MPW-001
	POWER SUPPLY CBA(MPW-1) JACK CBA(MPW-2)	---------- ----------

POWER SUPPLY CBA

Ref. No.	Description	Part No.
	POWER SUPPLY CBA(MPW-1) Consists of the following:	----------
	CAPACITORS	
C201	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C202	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C203	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C204	ELECTROLYTIC CAP. 2.2μF/50V M	CE1JMASDL2R2
C207	CHIP CERAMIC CAP.(1608) B K 0.1μF/16V	CHD1CK30B104
C210	ELECTROLYTIC CAP. 22μF/50V M	CE1JMASDL220
C216	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C217	CHIP CERAMIC CAP.(1608) B K 0.1μF/16V	CHD1CK30B104
C218	CHIP CERAMIC CAP.(1608) B K 1μF/25V	CHD1EK30B105
C219	ELECTROLYTIC CAP. 47μF/25V M	CE1EMASDL470
C221	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C222	ELECTROLYTIC CAP. 470μF/16V M	CE1CMASDL471
C223	ELECTROLYTIC CAP. 22μF/50V M	CE1JMASDL220
C224	ELECTROLYTIC CAP. 2.2μF/50V M	CE1JMASDL2R2
C302	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C303	ELECTROLYTIC CAP. 330μF/10V M	CE1AMASDL331
C304	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C305	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C306	ELECTROLYTIC CAP. 10μF/50V M	CE1JMASDL100
C309	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C310	CHIP CERAMIC CAP.(1608) CH J 47pF/50V	CHD1JJ3CH470
C311	CHIP CERAMIC CAP.(1608) CH J 47pF/50V	CHD1JJ3CH470
C601⚠	CAP METALIZED FILM 0.47μF/300V K 3.5MM	CT2F474DC004
C602⚠	CAP METALIZED FILM 0.47μF/300V K 3.5MM	CT2F474DC004
C605	CAP ELECTROLYTIC 270μF/200V	CEA271DYG005
C606	CAP ELECTROLYTIC 270μF/200V	CEA271DYG005
C609	POLYESTER FILM CAP. (PB FREE) 0.1μF/100V J	CA2A104DT018
C610	POLYESTER FILM CAP. (PB FREE) 0.0012μF/100V J	CA2A122DT018
C611	CERAMIC CAP. 560pF/2KV	CA3D561PAN04
C612	POLYESTER FILM CAP. (PB FREE) 0.068μF/100V J	CA2A683DT018
C613	POLYESTER FILM CAP. (PB FREE) 0.0015μF/100V J	CA2A152DT018
C631	ELECTROLYTIC CAP. 470μF/25V M	CE1EMZNDL471
C632	ELECTROLYTIC CAP. 100μF/25V M	CE1EMASDL101
C633	CAP ALUMINUM ELECTOLYTIC 2200μF/6.3V M	CE0KMZNDL222
C634	ELECTROLYTIC CAP. 47μF/50V M	CE1JMASDL470
C637	CERAMIC CAP. 2200pF/1KV	CCD3AKA0R222
C638	ELECTROLYTIC CAP. 2200μF/35V M	CE1GMZNDL222
C639	ELECTROLYTIC CAP. 1000μF/25V M	CE1EMZNDL102
C642	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C644	ELECTROLYTIC CAP 3300μF/10V	CE1AMZNDL332
C645	ELECTROLYTIC CAP 3300μF/6.3V M	CE0KMZNDL332
C646	POLYESTER FILM CAP. (PB FREE) 0.0022μF/100V J	CA2A222DT018
C648	ELECTROLYTIC CAP. 100μF/10V M	CE1AMASDL101
C652	ELECTROLYTIC CAP. 1000μF/6.3V M	CE0KMASDL102
C653	ELECTROLYTIC CAP. 220μF/10V M H7	CE1AMAVSL221
C654	ELECTROLYTIC CAP. 220μF/10V M H7	CE1AMAVSL221
C656	ELECTROLYTIC CAP. 100μF/16V M H7	CE1CMAVSL101
C657	ELECTROLYTIC CAP. 22μF/50V M H7	CE1JMAVSL220
C676	ELECTROLYTIC CAP. 10μF/50V M	CE1JMASDL100
C681	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C682	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C683	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C684	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C691⚠	SAFTY CAP. 3300pF/250V KX	CA2E332MR101
C693⚠	SAFTY CAP. 1000pF/250V KX	CA2E102MR101
C723	CHIP CERAMIC CAP.(1608) B K 2.2μF/10V	CHD1AK30B225
C724	CHIP CERAMIC CAP.(1608) B K 2.2μF/10V	CHD1AK30B225
C731	CHIP CERAMIC CAP. CH J 39pF/50V	CHD1JJ3CH390
C732	CHIP CERAMIC CAP. CH J 39pF/50V	CHD1JJ3CH390
C733	CHIP CERAMIC CAP. CH J 39pF/50V	CHD1JJ3CH390
C734	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
C735	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
C736	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
C743	CHIP CERAMIC CAP.(1608) B K 2.2μF/10V	CHD1AK30B225
C744	CHIP CERAMIC CAP.(1608) B K 2.2μF/10V	CHD1AK30B225
C771	ELECTROLYTIC CAP. 100μF/16V M H7	CE1CMAVSL101
C772	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C775	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C776	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C801	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C802	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V	CHD1EK30B104
C803	CHIP CERAMIC CAP.(1608) B K 1μF/25V	CHD1EK30B105
C804	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V	CHD1EK30B104
C805	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C806	CHIP CERAMIC CAP.(1608) B K 1μF/25V	CHD1EK30B105
C807	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V	CHD1EK30B104
C808	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C809	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V	CHD1EK30B104
C810	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V	CHD1EK30B104

Ref. No.	Description	Part No.
C811	CHIP CERAMIC CAP.(1608) B K 0.47μF/16V	CHD1CK30B474
C815	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C816	ELECTROLYTIC CAP. 10μF/50V M H7	CE1JMASSL100
C817	CHIP CERAMIC CAP.(1608) B K 1μF/25V	CHD1EK30B105
C818	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V	CHD1EK30B104
C819	ELECTROLYTIC CAP. 10μF/50V M H7	CE1JMASSL100
C820	CHIP CERAMIC CAP.(1608) B K 1μF/25V	CHD1EK30B105
C821	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V	CHD1EK30B104
C822	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C824	CHIP CERAMIC CAP.(1608) B K 1μF/25V	CHD1EK30B105
C825	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V	CHD1EK30B104
C826	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C827	ELECTROLYTIC CAP. 1000μF/25V M	CE1EMZNDL102
C828	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V	CHD1EK30B104
C829	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V	CHD1EK30B104
C830	CHIP CERAMIC CAP.(1608) B K 0.47μF/16V	CHD1CK30B474
C832	ELECTROLYTIC CAP. 3.3μF/50V M	CE1JMASDL3R3
C833	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V	CHD1EK30B104
C834	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C835	CHIP CERAMIC CAP. B K 560pF/50V	CHD1JK30B561
C836	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C837	CHIP CERAMIC CAP. B K 560pF/50V	CHD1JK30B561
C838	CHIP CERAMIC CAP.(1608) CH J 470pF/50V	CHD1JJ3CH471
C839	CHIP CERAMIC CAP.(1608) CH J 470pF/50V	CHD1JJ3CH471
C841	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C842	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C843	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C844	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C847	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V	CHD1EK30B104
C848	CHIP CERAMIC CAP.(1608) CH J 470pF/50V	CHD1JJ3CH471
C849	CHIP CERAMIC CAP.(1608) CH J 470pF/50V	CHD1JJ3CH471
C871	CHIP CERAMIC CAP.(1608) B K 3300pF/50V	CHD1JK30B332
C872	CHIP CERAMIC CAP.(1608) B K 3300pF/50V	CHD1JK30B332
C873	CHIP CERAMIC CAP.(1608) B K 2.2μF/10V	CHD1AK30B225
C874	CHIP CERAMIC CAP.(1608) B K 2.2μF/10V	CHD1AK30B225
C875	CHIP CERAMIC CAP. CH J 180pF/50V	CHD1JJ3CH181
C876	CHIP CERAMIC CAP. CH J 180pF/50V	CHD1JJ3CH181
C877	CHIP CERAMIC CAP.(1608) B K 6800pF/50V	CHD1JK30B682
C878	CHIP CERAMIC CAP.(1608) B K 6800pF/50V	CHD1JK30B682
C879	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C880	ELECTROLYTIC CAP. 100μF/16V M H7	CE1CMAVSL101
C882	CHIP CERAMIC CAP.(1608) B K 2.2μF/10V	CHD1AK30B225
C883	CHIP CERAMIC CAP.(1608) B K 2.2μF/10V	CHD1AK30B225
C884	CHIP CERAMIC CAP.(1608) B K 2.2μF/10V	CHD1AK30B225
C885	CHIP CERAMIC CAP.(1608) B K 2.2μF/10V	CHD1AK30B225
CONNECTORS		
CN101	PH CONNECTOR TOP 6P B6B-PH-K-S (LF)(SN)	J3PHC06JG029
CN201	FFC CONNECTOR IMSA-9615S-11A-PP-A	JC96J11ER007
CN301	FFC CONNECTOR IMSA-9615S-29A-PP-A	JC96J29ER007
CN302	FFC CONNECTOR IMSA-9615S-29A-PP-A	JC96J29ER007
CN631	PH CONNECTOR TOP 11P B11B-PH-K-S(LF)(SN)	J3PHC11JG029
CN801	PH CONNECTOR TOP 2P B2B-PH-K-S (LF)(SN)	J3PHC02JG029
CN802	PH CONNECTOR TOP 2P B2B-PH-K-S (LF)(SN)	J3PHC02JG029
DIODES		
D202	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D203	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D204	IC SHUNT REGULATOR KIA431-AT/P	NSZBA0TJY036
D205	DIODE ZENER 24BSA-T26	NDTA024BST26
D206	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D207	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133

Ref. No.	Description	Part No.
D208	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D209	DIODE ZENER 36BSB-T26	NDTB036BST26
D210	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D211	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D404	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D405	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D407	DIODE ZENER 10BSB-T26	NDTB010BST26
D410	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D411	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D412	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D413	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D414	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D415	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D417	DIODE ZENER 3V9BSB-T26	NDTB3R9BST26
D418	DIODE ZENER 3V9BSB-T26	NDTB3R9BST26
D419	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D420	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D421	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D422	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D601⚠	DIODE GENERAL PURPOSE 1N5406-BU	NDLZ1N5406BU
D602⚠	DIODE GENERAL PURPOSE 1N5406-BU	NDLZ1N5406BU
D603⚠	DIODE GENERAL PURPOSE 1N5406-BU	NDLZ1N5406BU
D604⚠	DIODE GENERAL PURPOSE 1N5406-BU	NDLZ1N5406BU
D606⚠	DIODE ZENER 27BSB-T26	NDTB027BST26
D607	DIODE ZENER 4V3BSB-T26	NDTB4R3BST26
D609⚠	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D611	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D612⚠	DIODE ZENER 39BSB-T26	NDTB039BST26
D620	DIODE ZENER 1ZB220-YBB	NDWZ01ZB220Y
D631	DIODE FR154	NDLZ000FR154
D632	DIODE FR104-B	NDLZ000FR104
D633	DIODE FAST RECOVERY FR151-B/P	NDWZ0FR151BP
D634	DIODE SHOTTKY SB3200BR	NDWZ3200D027
D635	DIODE ZENER 1ZB22BB	NDWZ0001ZB22
D636	DIODE SHOTTKY SB3200BR	NDWZ3200D027
D638	DIODE FR154	NDLZ000FR154
D639	DIODE ZENER 1ZB43BB	NDWZ0001ZB43
D641	SCHOTTKY BARRIER DIODE SB390	NDWZ000SB390
D642	SCHOTTKY BARRIER DIODE SB390	NDWZ000SB390
D643	DIODE FR104-B	NDLZ000FR104
D644	DIODE ZENER 8V2BSB-T26	NDTB8R2BST26
D645	SHUNT REGULATOR KIA431B-AT/P	NSZBA0TJY038
D646	DIODE SCHOTTKY SB360BH	NDWZ000SB360
D647	SCHOTTKY BARRIER DIODE SB140	NDWZ000SB140
D650	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D651	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D652	DIODE ZENER HZS5.6NB2TE-EQ	QDTB0HZS5R6N
D657	DIODE ZENER 33BSB-T26	NDTB033BST26
D658	DIODE ZENER 6V8BSA-T26	NDTA6R8BST26
D659	DIODE ZENER 6V8BSA-T26	NDTA6R8BST26
D660	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D661	DIODE FR154	NDLZ000FR154
D662	DIODE FR154	NDLZ000FR154
D665	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
D666	IC SHUNT REGULATOR KIA431-AT/P	NSZBA0TJY036
D670	DIODE ZENER 10BSB-T26	NDTB010BST26
D671	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
D801	DIODE ZENER 20BSB-T26	NDTB020BST26
D802	DIODE ZENER 20BSB-T26	NDTB020BST26
D804	DIODE ZENER 20BSB-T26	NDTB020BST26
D805	DIODE ZENER 20BSB-T26	NDTB020BST26
D806	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133

Ref. No.	Description	Part No.
	ICS	
IC201	IC TL3472CDR	NSZBA0TTY115
IC601⚠	IC PHOTOCOUPLER TLP781F(D4-FUNBLL F)	QPEL781FBLLF
IC631	IC LD1117V	NSZBA0SSS046
IC771	IC SWITCHING TC4052BF(ELNF)	QSZBA0TTS162
IC801	IC D-AMP BD5426EFS-E2	QSZBA0TRM137
IC871	IC OP AMP NJM4558M(TE1)-#ZZZB	QSZBA0TJR089
	COILS	
L301	INDUCTOR 33μH-K-5FT	LLARKBSTU330
L302	CHIP INDUCTOR LK1608R22K-T	LLACKB3TUR22
L303	CHIP INDUCTOR LK1608R22K-T	LLACKB3TUR22
L601⚠	COIL LINE FILTER ST0807ET28-009 10MH	LLEG0Z0Y2029
L602⚠	COIL LINE FILTER ST0807ET28-009 10MH	LLEG0Z0Y2029
L801	RADIAL LEAD INDUCTORS 33μH	LLARKGQTU330
L802	RADIAL LEAD INDUCTORS 33μH	LLARKGQTU330
L803	RADIAL LEAD INDUCTORS 33μH	LLARKGQTU330
L804	RADIAL LEAD INDUCTORS 33μH	LLARKGQTU330
L871	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
	TRANSISTORS	
Q171	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q172	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q201	TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
Q202	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q203	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q204	TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
Q205	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q207	TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
Q208	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q209	TRANSISTOR 2SC2120-Y(TE2 F T)	QQSY2SC2120F
Q210	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q211	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q212	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q213	TRANSISTOR 2SA950-O (TE2 F T)	QQS002SA950F
Q401	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q402	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q601⚠	MOS FET TK8A50D	QFWZTK8A50DQ
Q602⚠	TRANSISTOR 2SC2120-O(TE2 F T)	QQS02SC2120F
Q631	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q632	TRANSISTOR 2SA950-O (TE2 F T)	QQS002SA950F
Q634	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q635	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q636	TRANSISTOR 2SA950-O (TE2 F T)	QQS002SA950F
Q637	TRANSISTOR 2SC2120-Y(TE2 F T)	QQSY2SC2120F
Q638	TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
Q639	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q640	TRANSISTOR 2SC2120-Y(TE2 F T)	QQSY2SC2120F
Q641	TRANSISTOR 2SC2120-Y(TE2 F T)	QQSY2SC2120F
Q642	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q643	TRANSISTOR 2SA950-O (TE2 F T)	QQS002SA950F
Q771	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q772	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q801	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q802	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q841	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q871	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q872	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q873	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q874	TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
	RESISTORS	
R172	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R175	RES CARBON FILM T 1/4W J 22k Ω	RCX4223T1001
R201	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R202	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R204	RES CARBON FILM T 1/4W J 2.0k Ω	RCX4202T1001
R206	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R207	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R208	RES CHIP 1608 1/10W J 1 Ω	RRJ1R0RYL002
R209	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R210	RES CARBON FILM T 1/4W J 10 Ω	RCX4100T1001
R211	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R212	RES CARBON FILM T 1/4W J 10 Ω	RCX4100T1001
R213	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R214	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R216	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R217	RES CHIP 1608 1/10W J 330 Ω	RRJ331RYL002
R218	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R219	RES CHIP 1608 1/10W J 15k Ω	RRJ153RYL002
R220	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R223	RES CARBON FILM T 1/4W J 3.3k Ω	RCX4332T1001
R224	RES CARBON FILM T 1/4W J 27k Ω	RCX4273T1001
R225	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R226	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R227	RES. CARBON FILM J 1/2W J 2.7 Ω	RCX22R7T1003
R228	RES CARBON FILM T 1/4W J 3.3k Ω	RCX4332T1001
R229	RES CARBON FILM T 1/4W J 3.3k Ω	RCX4332T1001
R231	RES CHIP 1608 1/10W J 1.5k Ω	RRJ152RYL002
R232	RES CHIP 1608 1/10W F 9.10k Ω	RTW9101HH008
R233	RES CHIP 1608 1/10W F 150 Ω	RTW1500HH008
R234	RES CHIP 1608 1/10W F 2.20k Ω	RTW2201HH008
R235	RES CARBON FILM T 1/4W J 330 Ω	RCX4331T1001
R236	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
R237	RES CARBON FILM T 1/4W J 8.2k Ω	RCX4822T1001
R238	RES CARBON FILM T 1/4W J 1.5k Ω	RCX4152T1001
R240	RES CARBON FILM T 1/4W J 47k Ω	RCX4473T1001
R241	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R242	RES CARBON FILM T 1/4W J 12k Ω	RCX4123T1001
R243	RES CARBON FILM T 1/4W J 150 Ω	RCX4151T1001
R245	RES CARBON FILM T 1/4W J 8.2k Ω	RCX4822T1001
R247	RES. CARBON FILM J 1/2W J 3.3 Ω	RCX23R3T1003
R248	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R250	RES CARBON FILM T 1/4W J 6.8 Ω	RCX46R8T1001
R251	RES CARBON FILM T 1/4W J 6.8 Ω	RCX46R8T1001
R252	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
R253	RES CARBON FILM T 1/4W J 4.7 Ω	RCX44R7T1001
R302	RES CHIP 1608 1/10W J 100 Ω	RRJ101RYL002
R303	RES CHIP 1608 1/10W J 100 Ω	RRJ101RYL002
R304	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R308	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R309	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R401	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R402	RES CARBON FILM T 1/4W J 22k Ω	RCX4223T1001
R403	RES CHIP 1608 1/10W J 27k Ω	RRJ273RYL002
R404	RES CHIP 1608 1/10W J 47k Ω	RRJ473RYL002
R405	RES CARBON FILM T 1/4W J 47k Ω	RCX4473T1001
R407	RES CARBON FILM T 1/4W J 22k Ω	RCX4223T1001
R410	RES CHIP 1608 1/10W F 47.0k Ω	RTW4702HH008
R411	RES CHIP 1608 1/10W F 36.0k Ω	RTW3602HH008
R412	RES CHIP 1608 1/10W J 47k Ω	RRJ473RYL002
R413	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R601⚠	RES. CARBON FILM J 1/2W J 1.2M Ω	RCX2125T1003
R602⚠	CEMENT RESISTOR 5W J 2.2 Ω H 10MM	RW052R2PAK10
R604	CHIP RES.(3216) 1/4W J 0 Ω	RRX4JR7Z0000
R605	CHIP RES. 1/4W J 750k Ω	RRX4JR7Z0754
R610	RES CARBON FILM T 1/4W J 220 Ω	RCX4221T1001
R611	RES CARBON FILM T 1/4W J 270 Ω	RCX4271T1001

Ref. No.	Description	Part No.
R613	RES CARBON FILM T 1/4W J 1.5k Ω	RCX4152T1001
R614⚠	METAL OXIDE FILM RES. 2W J 0.27 Ω	RN02R27ZU001
R615	RES CARBON FILM T 1/4W J 3.9k Ω	RCX4392T1001
R616	RES CARBON FILM T 1/4W J 270 Ω	RCX4271T1001
R617⚠	CEMENT RESISTOR 5W J 2.2 Ω H 10MM	RW052R2PAK10
R632	RES CARBON FILM T 1/4W J 1.0 Ω	RCX41R0T1001
R633	RES. CARBON FILM J 1/2W J 3.3 Ω	RCX23R3T1003
R634	RES CHIP 1608 1/10W F 2.70k Ω	RTW2701HH008
R635	RES CHIP 1608 1/10W F 2.70k Ω	RTW2701HH008
R636	RES. CARBON FILM J 1/2W J 3.3 Ω	RCX23R3T1003
R637	RES CHIP 1608 1/10W F 2.70k Ω	RTW2701HH008
R641	RES CHIP 1608 1/10W D 1.10k Ω	RTW1101HH007
R642	RES CHIP 1608 1/10W D 10.0k Ω	RTW1002HH007
R643	RES CHIP 1608 1/10W D 10.0k Ω	RTW1002HH007
R644	RES CHIP 1608 1/10W F 82.0k Ω	RTW8202HH008
R646	RES CARBON FILM T 1/4W J 220 Ω	RCX4221T1001
R647	RES CHIP 1608 1/10W F 75.0k Ω	RTW7502HH008
R649	RES CHIP 1608 1/10W F 100k Ω	RTW1003HH008
R650	RES CARBON FILM T 1/4W J 2.7k Ω	RCX4272T1001
R651	RES CHIP 1608 1/10W J 1 Ω	RRJ1R0RYL002
R652	RES CHIP 1608 1/10W F 820 Ω	RTW8200HH008
R653	RES CHIP 1608 1/10W F 36.0k Ω	RTW3602HH008
R654	RES CHIP 1608 1/10W J 5.6k Ω	RRJ562RYL002
R655	RES CARBON FILM T 1/4W J 2.7k Ω	RCX4272T1001
R656	RES CARBON FILM T 1/4W J 8.2 Ω	RCX48R2T1001
R657	RES CARBON FILM T 1/4W J 8.2 Ω	RCX48R2T1001
R658	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R659	RES CHIP 1608 1/10W J 47k Ω	RRJ473RYL002
R660	RES CARBON FILM T 1/4W J 680 Ω	RCX4681T1001
R661	RES. CARBON FILM J 1/2W J 220 Ω	RCX2221T1003
R662	RES CARBON FILM T 1/4W J 15 Ω	RCX4150T1001
R663	RES CARBON FILM T 1/4W J 680 Ω	RCX4681T1001
R664	RES CARBON FILM T 1/4W J 680 Ω	RCX4681T1001
R665	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
R666	RES CARBON FILM T 1/4W J 1.0 Ω	RCX41R0T1001
R668	RES CHIP 1608 1/10W F 620 Ω	RTW6200HH008
R669	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001HH008
R672	RES. CARBON FILM J 1/2W J 2.7 Ω	RCX22R7T1003
R673	RES CARBON FILM T 1/4W J 22k Ω	RCX4223T1001
R674	RES CARBON FILM T 1/4W J 1.0k Ω	RCX4102T1001
R675	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R676	RES CHIP 1608 1/10W J 47k Ω	RRJ473RYL002
R677	RES CARBON FILM T 1/4W J 330 Ω	RCX4331T1001
R678	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
R679	RES CHIP 1608 1/10W F 3.60k Ω	RTW3601HH008
R680	RES CHIP 1608 1/10W F 10.0k Ω	RTW1002HH008
R682	RES CARBON FILM T 1/4W J 2.7 Ω	RCX42R7T1001
R683	RES CARBON FILM T 1/4W J 2.7 Ω	RCX42R7T1001
R684	RES CARBON FILM T 1/4W J 1.8 Ω	RCX41R8T1001
R685	RES CARBON FILM T 1/4W J 22 Ω	RCX4220T1001
R686	RES CARBON FILM T 1/4W J 680 Ω	RCX4681T1001
R687	RES CARBON FILM T 1/4W J 100 Ω	RCX4101T1001
R688	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
R689	RES CARBON FILM T 1/4W J 680 Ω	RCX4681T1001
R691	RES CARBON FILM T 1/4W J 2.7 Ω	RCX42R7T1001
R693	RES CARBON FILM T 1/4W J 2.7 Ω	RCX42R7T1001
R696	METAL RESISTOR 1W J 3.9 Ω	RN013R9ZU001
R697	METAL OXIDE FILM RES. 1W J 3.3 Ω	RN013R3ZU001
R698	RES CARBON FILM T 1/4W J 2.7 Ω	RCX42R7T1001
R723	RES CHIP 1608 1/10W J 15k Ω	RRJ153RYL002
R724	RES CHIP 1608 1/10W J 15k Ω	RRJ153RYL002
R725	RES CHIP 1608 1/10W J 39k Ω	RRJ393RYL002
R726	RES CHIP 1608 1/10W J 39k Ω	RRJ393RYL002

Ref. No.	Description	Part No.
R734	RES CHIP 1608 1/10W J 10 Ω	RRJ100RYL002
R735	RES CHIP 1608 1/10W J 10 Ω	RRJ100RYL002
R736	RES CHIP 1608 1/10W J 10 Ω	RRJ100RYL002
R743	RES CHIP 1608 1/10W J 15k Ω	RRJ153RYL002
R744	RES CHIP 1608 1/10W J 15k Ω	RRJ153RYL002
R745	RES CHIP 1608 1/10W J 39k Ω	RRJ393RYL002
R746	RES CHIP 1608 1/10W J 39k Ω	RRJ393RYL002
R763	RES CARBON FILM T 1/4W J 10k Ω	RCX4103T1001
R771	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
R772	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R773	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R774	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R775	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R776	RES CARBON FILM T 1/4W J 100k Ω	RCX4104T1001
R777	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R778	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R779	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R801	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R802	RES CHIP 1608 1/10W F 27.0k Ω	RTW2702HH008
R803	RES CHIP 1608 1/10W F 11.0k Ω	RTW1102HH008
R804	RES CHIP 1608 1/10W F 11.0k Ω	RTW1102HH008
R806	RES CHIP 1608 1/10W J 4.7k Ω	RRJ472RYL002
R807	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R810	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R813	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R814	RES CHIP 1608 1/10W J 6.8k Ω	RRJ682RYL002
R815	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R816	RES CHIP 1608 1/10W J 6.8k Ω	RRJ682RYL002
R817	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R818	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R819	RES CARBON FILM T 1/4W J 22k Ω	RCX4223T1001
R820	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R842	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R843	RES CHIP 1608 1/10W J 110 Ω	RRJ111RYL002
R844	RES CHIP 1608 1/10W J 220 Ω	RRJ221RYL002
R846	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R847	RES CHIP 1608 1/10W J 4.7k Ω	RRJ472RYL002
R848	RES CHIP 1608 1/10W J 4.7k Ω	RRJ472RYL002
R871	RES CHIP 1608 1/10W J 560 Ω	RRJ561RYL002
R872	RES CHIP 1608 1/10W J 560 Ω	RRJ561RYL002
R873	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R874	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R875	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R876	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R877	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R878	RES CARBON FILM T 1/4W J 1.0k Ω	RCX4102T1001
R879	RES CHIP 1608 1/10W J 18k Ω	RRJ183RYL002
R880	RES CHIP 1608 1/10W J 18k Ω	RRJ183RYL002
R881	RES CHIP 1608 1/10W J 100 Ω	RRJ101RYL002
R882	RES CHIP 1608 1/10W J 100 Ω	RRJ101RYL002
R883	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R884	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R885	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R886	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R887	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R888	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R891	RES CHIP 1608 1/10W J 20k Ω	RRJ203RYL002
R892	RES CHIP 1608 1/10W J 20k Ω	RRJ203RYL002
R893	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
MISCELLANEOUS		
AC601⚠	AC CORD UL 1855MM BLACK	WAC0182LW007
B11	POW HEAT SINK A7120UH	1EM423993

Ref. No.	Description	Part No.
BC301	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC601	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC602	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC801	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC802	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC803	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC804	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC805	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC807	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
BC841	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
CL701	WIRE ASSEMBLY 9P 9PIN/170MM	WX1A94F0-002
F601⚠	FUSE STC4A125V U/CT	PAGE20CW3402
FH601	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
FH602	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
JK721	JACK RCA PCB S WHITE 01/RCA-101H(WH)	JXRJ010YUQ02
JK722	JACK RCA PCB S RED 01/RCA-101H(RD)	JXRJ010YUQ01
JK731	JACK RCA PCB S GREEN 01/RCA-101H(GN)	JXRJ010YUQ03
JK732	JACK RCA PCB S BLUE 01/RCA-101H(BL)	JXRJ010YUQ04
JK733	JACK RCA PCB S RED 01/RCA-101H(RD)	JXRJ010YUQ01
JK741	JACK RCA PCB S WHITE 01/RCA-101H(WH)	JXRJ010YUQ02
JK742	JACK SW RCA PCB S RED RCA-102H(RD)	JYRJ010YUQ03
JK841	JACK RCA PCB S ORANGE 01/RCA-101H(OR)	JXRJ010YUQ06
JK871	JACK RCA PCB S WHITE 01/RCA-101H(WH)	JXRJ010YUQ02
JK872	JACK RCA PCB S RED 01/RCA-101H(RD)	JXRJ010YUQ01
JS202	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
L3	SCREW B-TIGHT D3X8 BIND HEAD+	GBJB3080
SA601⚠	SURGE ABSORBER 470V+-10PER	NVQZ10D471KB
T601⚠	TRANS POWER BCK-28-9904	LTT2PC0XB062
TM601	EYELET TYPE D-1	0VM406868
TM602	EYELET TYPE D-1	0VM406868
TU301	TUNER UNIT ATSC/NTSC/QAM TDYU4-D02A	UTNATS0AL001

JACK CBA

Ref. No.	Description	Part No.
	JACK CBA(MPW-2) Consists of the following:	----------
	CAPACITORS	
C754	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
C755	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
C756	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
C757	CHIP CERAMIC CAP.(1608) B K 2.2μF/10V	CHD1AK30B225
C758	CHIP CERAMIC CAP.(1608) B K 2.2μF/10V	CHD1AK30B225
	RESISTORS	
R751	RES CHIP 1608 1/10W J 75 Ω	RRJ750RYL002
R752	RES CHIP 1608 1/10W J 75 Ω	RRJ750RYL002
R753	RES CHIP 1608 1/10W J 75 Ω	RRJ750RYL002
R756	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R757	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R758	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R759	RES CHIP 1608 1/10W J 15k Ω	RRJ153RYL002
R760	RES CHIP 1608 1/10W J 15k Ω	RRJ153RYL002
R761	RES CHIP 1608 1/10W J 39k Ω	RRJ393RYL002
R762	RES CHIP 1608 1/10W J 39k Ω	RRJ393RYL002
	MISCELLANEOUS	
JK751	JACK SW DIN PCB L DIN-435C(777D)	JYEL040YUQ03
JK752	JACK RCA PCB L RCA-101S(1)-03	JXRL010YUQ12
JK753	JACK RCA PCB L RCA-101S(1)-04	JXRL010YUQ13
JK754	JACK SW RCA PCB L RCA-102F(RD)	JYRL010YUQ05

INVERTER ASSEMBLY

Ref. No.	Description	Part No.
	INVERTER ASSEMBLY Consists of the following:	A17A1M1V-001
	INVERTER CBA FUNCTION CBA	A17A1M1V-001-IV A17A1M1V-001-FN

INVERTER CBA

Ref. No.	Description	Part No.
	INVERTER CBA Consists of the following:	----------
	CAPACITORS	
C1001	ELECTROLYTIC CAP. 10μF/50V M	CE1JMASDL100
C1002	ELECTROLYTIC CAP. 100μF/35V M	CE1GMASDL101
C1003	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1004	ELECTROLYTIC CAP. 100μF/10V M	CE1AMASDL101
C1005	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1006	CHIP CERAMIC CAP.(1608) B K 0.22μF/25V	CHD1EK30B224
C1007	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1008	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1010	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1011	CHIP CERAMIC CAP.(1608) B K 0.22μF/25V	CHD1EK30B224
C1012	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1016	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1018	CHIP CERAMIC CAP. B K 0.01μF/25V	CHD1EK30B103
C1019	CHIP CERAMIC CAP. B K 0.01μF/25V	CHD1EK30B103
C1020	CHIP CERAMIC CAP. B K 0.01μF/25V	CHD1EK30B103
C1021	ELECTROLYTIC CAP. 10μF/50V M	CE1JMASDL100
C1023	ELECTROLYTIC CAP. 470μF/35V M	CE1GMZNDL471
C1024	ELECTROLYTIC CAP. 470μF/35V M	CE1GMZNDL471
C1103	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V	CHD1JK30B473
C1104	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1106	CHIP CERAMIC CAP.(1608) CH J 1800pF/50V	CHD1JJ3CH182
C1107	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1108	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1109	CHIP CERAMIC CAP.(1608) B K 0.047μF/25V	CHD1EK30B473
C1110	CHIP CERAMIC CAP.(1608) B K 2.2μF/10V	CHD1AK30B225
C1111	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1112	CHIP CERAMIC CAP.(1608) B K 6800pF/50V	CHD1JK30B682
C1113	CAP METALIZED FILM 1.0μF/63V J	CT1K105SER01
C1114	CAP METALIZED FILM 1.0μF/63V J	CT1K105SER01
C1115	CAP METALIZED FILM 1.0μF/63V J	CT1K105SER01
C1116	ELECTROLYTIC CAP. 4.7μF/50V M	CE1JMASDL4R7
C1123	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V	CHD1JK30B473
C1201	CAP CERAMIC HV 10pF/6.3KV/SL/J	CCC1000MR007
C1203	CAP CERAMIC HV 10pF/6.3KV/SL/J	CCC1000MR007
C1205	CAP CERAMIC HV 10pF/6.3KV/SL/J	CCC1000MR007
C1206	CAP CERAMIC (AX) 1000pF/50V/B/K	CA1J102TU061
C1207	CAP CERAMIC HV 10pF/6.3KV/SL/J	CCC1000MR007
C1208	CAP CERAMIC (AX) 1000pF/50V/B/K	CA1J102TU061
C1209	CAP CERAMIC HV 10pF/6.3KV/SL/J	CCC1000MR007
C1210	CAP CERAMIC (AX) 1000pF/50V/B/K	CA1J102TU061
C1211	CAP CERAMIC HV 10pF/6.3KV/SL/J	CCC1000MR007
C1212	CAP CERAMIC (AX) 1000pF/50V/B/K	CA1J102TU061
C1213	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1214	CAP CERAMIC (AX) 1000pF/50V/B/K	CA1J102TU061
C1215	CAP CERAMIC (AX) 1000pF/50V/B/K	CA1J102TU061
	CONNECTORS	
CN1201⚠	CONNECTOR/JACK 1747386-1	JB17J02AP002
CN1202⚠	CONNECTOR/JACK 1747386-1	JB17J02AP002
CN1203⚠	CONNECTOR/JACK 1747386-1	JB17J02AP002
	DIODES	
D1001	DIODE ZENER 6V2BSB-T26	NDTB6R2BST26

Ref. No.	Description	Part No.
D1002	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1003	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1004	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1005	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1006	DIODE ZENER 27BSB-T26	NDTB027BST26
D1101	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D1102	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1103	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D1104	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1201	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1202	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1203	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1204	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1205	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1206	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1207	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1208	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1209	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1210	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1211	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1212	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1213	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1214	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1215	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1216	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1217	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1218	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1219	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1220	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1221	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1222	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1223	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1224	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1225	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1226	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1227	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
	ICS	
IC1001	IC BA10324AF-E2	QSZBA0TRM032
IC1101	IC INVERTER CONTROLLER OZ9933GN-A-0-TR	NSCA0TTMC001
	TRANSISTORS	
Q1004	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1005	TRANSISTOR KTA1267-GR-AT/P	NQS1KTA1267P
Q1006	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1007	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1008	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1009	TRANSISTOR KTC3198-Y-AT/P	NQSYKTC3198P
Q1101	FET MOS FDD5614P/Z	NF2ZFDD5614P
Q1102	FET MOS FDD5612/Z	NF2ZFDD56120
Q1112	FET MOS FDD5614P/Z	NF2ZFDD5614P
Q1113	FET MOS FDD5612/Z	NF2ZFDD56120
	RESISTORS	
R1004	METAL OXIDE RES. 2W J 2.7k Ω	RN02272ZU001
R1005	RES CHIP 1608 1/10W J 4.7k Ω	RRJ472RYL002
R1006	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R1007	RES CARBON FILM T 1/4W J 10k Ω	RCX4103T1001
R1008	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R1009	RES CHIP 1608 1/10W J 4.7k Ω	RRJ472RYL002
R1010	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R1011	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R1012	RES CHIP 1608 1/10W J 4.7k Ω	RRJ472RYL002
R1013	RES CHIP 1608 1/10W J 4.7k Ω	RRJ472RYL002
R1014	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002

Ref. No.	Description	Part No.
R1015	RES CHIP 1608 1/10W J 22k Ω	RRJ223RYL002
R1016	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R1017	RES CHIP 1608 1/10W J 4.7k Ω	RRJ472RYL002
R1018	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R1019	RES CHIP 1608 1/10W F 22.0k Ω	RTW2202HH008
R1020	RES CHIP 1608 1/10W F 39.0k Ω	RTW3902HH008
R1021	RES CHIP 1608 1/10W F 18.0k Ω	RTW1802HH008
R1022	RES CHIP 1608 1/10W F 8.20k Ω	RTW8201HH008
R1023	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R1024	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R1025	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R1026	RES CARBON FILM T 1/4W J 5.6k Ω	RCX4562T1001
R1027	RES CARBON FILM T 1/4W J 5.6k Ω	RCX4562T1001
R1028	RES CARBON FILM T 1/4W J 5.6k Ω	RCX4562T1001
R1029	RES CHIP 1608 1/10W J 10k Ω	RRJ103RYL002
R1030	RES CHIP 1608 1/10W J 20k Ω	RRJ203RYL002
R1031	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R1032	RES CHIP 1608 1/10W J 1M Ω	RRJ105RYL002
R1033	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R1034	RES CHIP 1608 1/10W J 1M Ω	RRJ105RYL002
R1035	RES CHIP 1608 1/10W J 1k Ω	RRJ102RYL002
R1036	RES CHIP 1608 1/10W J 1M Ω	RRJ105RYL002
R1037	RES CARBON FILM T 1/4W J 10k Ω	RCX4103T1001
R1101	RES CARBON FILM T 1/4W J 5.1k Ω	RCX4512T1001
R1102	RES CHIP 1608 1/10W J 10 Ω	RRJ100RYL002
R1103	RES CHIP 1608 1/10W J 2.2k Ω	RRJ222RYL002
R1116	RES CHIP 1608 1/10W F 10.0k Ω	RTW1002HH008
R1117	RES CHIP 1608 1/10W F 110k Ω	RTW1103HH008
R1118	RES CHIP 1608 1/10W J 33k Ω	RRJ333RYL002
R1119	RES CHIP 1608 1/10W J 30k Ω	RRJ303RYL002
R1120	RES CHIP 1608 1/10W J 1M Ω	RRJ105RYL002
R1121	RES CHIP 1608 1/10W J 5.1k Ω	RRJ512RYL002
R1122	RES CARBON FILM T 1/4W J 5.1k Ω	RCX4512T1001
R1123	RES CHIP 1608 1/10W J 10 Ω	RRJ100RYL002
R1124	RES CHIP 1608 1/10W J 2.2k Ω	RRJ222RYL002
R1137	RES CHIP 1608 1/10W J 56k Ω	RRJ563RYL002
R1138	RES CHIP 1608 1/10W 0 Ω	RRZ000RYL002
R1201	RES CHIP 1608 1/10W F 390 Ω	RTW3900HH008
R1202	RES CHIP 1608 1/10W F 390 Ω	RTW3900HH008
R1203	RES CHIP 1608 1/10W F 47.0k Ω	RTW4702HH008
R1204	RES CHIP 1608 1/10W F 47.0k Ω	RTW4702HH008
R1205	RES CHIP 1608 1/10W F 33.0k Ω	RTW3302HH008
R1206	RES CHIP 1608 1/10W F 33.0k Ω	RTW3302HH008
R1207	RES CHIP 1608 1/10W F 390 Ω	RTW3900HH008
R1208	RES CHIP 1608 1/10W F 390 Ω	RTW3900HH008
R1209	RES CHIP 1608 1/10W F 47.0k Ω	RTW4702HH008
R1210	RES CHIP 1608 1/10W F 47.0k Ω	RTW4702HH008
R1211	RES CHIP 1608 1/10W F 33.0k Ω	RTW3302HH008
R1212	RES CHIP 1608 1/10W F 33.0k Ω	RTW3302HH008
R1213	RES CHIP 1608 1/10W F 30.0k Ω	RTW3002HH008
R1214	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R1215	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R1216	RES CHIP 1608 1/10W F 30.0k Ω	RTW3002HH008
R1217	RES CHIP 1608 1/10W F 30.0k Ω	RTW3002HH008
R1218	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R1219	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R1220	RES CHIP 1608 1/10W F 30.0k Ω	RTW3002HH008
R1221	RES CHIP 1608 1/10W F 390 Ω	RTW3900HH008
R1222	RES CHIP 1608 1/10W F 390 Ω	RTW3900HH008
R1223	RES CHIP 1608 1/10W F 30.0k Ω	RTW3002HH008
R1224	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R1225	RES CHIP 1608 1/10W J 100k Ω	RRJ104RYL002
R1226	RES CHIP 1608 1/10W F 30.0k Ω	RTW3002HH008

Ref. No.	Description	Part No.
R1227	RES CHIP 1608 1/10W F 47.0k Ω	RTW4702HH008
R1228	RES CHIP 1608 1/10W F 47.0k Ω	RTW4702HH008
R1229	RES CHIP 1608 1/10W F 33.0k Ω	RTW3302HH008
R1230	RES CHIP 1608 1/10W F 33.0k Ω	RTW3302HH008
	MISCELLANEOUS	
BC1201	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC1203	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
CL1001	WIRE ASSEMBLY 11PIN 11PIN/100MM/AWG26	WX1A04A0-003
JS1005	WIRE COPPER 6111-06003-0120	XZ40C0SHG002
T1201⚠	TRANS INVERTER HVT-266	LTZ3PZ0XB015
T1202⚠	TRANS INVERTER HVT-266	LTZ3PZ0XB015
T1203⚠	TRANS INVERTER HVT-266	LTZ3PZ0XB015

FUNCTION CBA

Ref. No.	Description	Part No.
	FUNCTION CBA Consists of the following:	----------
	CAPACITORS	
C108	CAP CERAMIC (AX) 0.1μF/50V/B/K	CA1J104TU061
C113	ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C115	CHIP CERAMIC CAP. CH J 330pF/50V	CHD1JJ3CH331
	DIODES	
D104	LED GREEN 333GT/E(FNA)	NPWZ33GTEFNA
D105	LED L-53HT	NP4Z000L53HT
D107	CAP CERAMIC (AX) 0.1μF/50V/B/K	CA1J104TU061
	RESISTORS	
R108	RES CARBON FILM T 1/4W J 220 Ω	RCX4221T1001
R109	RES CARBON FILM T 1/4W G 10k Ω	RCX4103T1002
R111	RES CARBON FILM T 1/4W G 4.7k Ω	RCX4472T1002
R113	RES CARBON FILM T 1/4W G 2.7k Ω	RCX4272T1002
R114	RES CARBON FILM T 1/4W G 4.7k Ω	RCX4472T1002
R115	RES CARBON FILM T 1/4W G 8.2k Ω	RCX4822T1002
R116	RES CARBON FILM T 1/4W G 18k Ω	RCX4183T1002
R123	RES CARBON FILM T 1/4W J 220 Ω	RCX4221T1001
R124	RES CARBON FILM T 1/4W J 220 Ω	RCX4221T1001
R126	RES CARBON FILM T 1/4W J 1.0k Ω	RCX4102T1001
R127	RES CARBON FILM T 1/4W J 3.3k Ω	RCX4332T1001
R128	RES CARBON FILM T 1/4W J 100 Ω	RCX4101T1001
	SWITCHES	
SW101	TACT SWITCH SKHHLMA010	SST0101AL049
SW103	TACT SWITCH SKHHLMA010	SST0101AL049
SW104	TACT SWITCH SKHHLMA010	SST0101AL049
SW105	TACT SWITCH SKHHLMA010	SST0101AL049
SW106	TACT SWITCH SKHHLMA010	SST0101AL049
SW107	TACT SWITCH SKHHLMA010	SST0101AL049
	MISCELLANEOUS	
CL104	WIRE ASSEMBLY 6PIN 6PIN 170MM	WX1A01A0-011
RS102	SENSOR REMOTE RECEIVER KSM-712TH2E	USESJRSKK044

		20110322	
		26MF301B/F7(A17A4UH)(Serial No.: DS2)	
Different parts from the original model LC260EM2(DS1)			
Ref. No.		Description	Parts No.
MECHANICAL PARTS			
A1		FRONT CABINET A17A0UH	1EM028145
A10!		RATING LABEL A17A0UH	----------
A12		POP LABEL A17A2UH	----------
A42		Not used	
B44		THERMOSTAR TS-500(12X12X3)	XK1000TYG001
LCD1		LCD MODULE CMO 6BIT NORMALGRADE	UJ26MXA
S1		CARTON A17A0UH	1EM435327
X2!		OWNERS MANUAL A17A0UH	1EMN28259
X3		REMOTE CONTROL NF805UD	NF805UD
X6		QUICK START GUIDE A17A0UH	1EMN28260
X10		REGISTRATION CARD (MAGNAVOX) A17N0UH	1EMN27759
ELECTRICAL PARTS			
		DIGITAL MAIN CBA UNIT	A17A4MMA-001
		MPW CBA	A17A2MPW-001
		POWER SUPPLY CBA	----------
C835		CHIP CERAMIC CAP.(1608) B K 2700PF/50V	CHD1JK30B272
C837		CHIP CERAMIC CAP.(1608) B K 2700PF/50V	CHD1JK30B272
C875		CHIP CERAMIC CAP.(1608) CH J 270PF/50V	CHD1JJ3CH271
C876		CHIP CERAMIC CAP.(1608) CH J 270PF/50V	CHD1JJ3CH271
R814		RES CHIP 1608 1/10W J 3.3K OHM	RRJ332RYL002
R816		RES CHIP 1608 1/10W J 3.3K OHM	RRJ332RYL002
R879		RES CHIP 1608 1/10W J 47K OHM	RRJ473RYL002
R880		RES CHIP 1608 1/10W J 47K OHM	RRJ473RYL002

REVISION HISTORY

Chassis FL11.3

- 2011-03-15 LC260EM2 (Serial No. : DS1) added
- TBD LC260SS2 (Serial No.: DS1) added
- TBD 26MF301B/F7 (Serial No.: DS1) added
- TBD 26MF301B/F7 (Serial No.: DS2) added

COMPARISON LIST OF MODEL NAME

Chassis FL11.3

LC260EM2	(DS1)	A17A1UH
LC260SS2	(DS1)	A17A2UH
26MF301B/F7	(DS1)	A17A0UH
	(DS2)	A17A4UH